



RRB NTPC UG 2025

CBT-1 · Maths · Question Paper Compilation

English

All 32 Shifts (Sets) · Maths Section · Official Answer Key

About this Compilation

This booklet compiles all **32 shift papers** of the **RRB NTPC Under-Graduate 2025 CBT-1** examination (CEN 07/2025) in **English (Maths section only)**, with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

How to use

- Use the **Index** page to jump directly to any shift (clickable).
- Questions are numbered serially per shift; image-based questions appear at the end of each section.
- The correct answer for every question is highlighted in green with a tick.

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Set 2

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Set 4

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Quant

Q1 Quant

If the principal is ₹1000, the rate is 5% per annum, and the time is 2 years, what is the simple interest?

- A. ₹500
B. ₹200
C. ₹100 ✓
D. ₹50

Q2 Quant

Trains from Delhi, Lucknow, and Jaipur depart every 12 minutes, 18 minutes, and 27 minutes, respectively. If all depart together at 6:00 am, when will they depart together again?

- A. 7:36 am
B. 7:48 am ✓
C. 7:24 am
D. 7:40 am

Q3 Quant

If 5 and 10 are given, what is the third proportional to these numbers?

- A. 30
B. 20 ✓
C. 25
D. 15

Q4 Quant

A student scores 75, 80 and 90 in three tests with weights 2,3 and 5 respectively. What is the weighted average score?

- A. 84 ✓
B. 82
C. 83
D. 85

Q5 Quant

A retailer buys 60 pens and sells them at the purchase price of 72 pens. Determine his profit percentage.

- A. 12%
B. 16%
C. 20% ✓
D. 15%

Q6 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

- (A) Successive discounts of 44% and 12% on any number of toys bought.
(B) Successive discounts of 18%, 43% and 23% on any number of toys bought.
(C) 8% discount on the first 4 toys and 38% discount on each toy thereon.
(D) On buying ten items, the customer is billed for only seven items. A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

- A. D
B. C ✓
C. A
D. B

Q7 Quant

The ages of two siblings add up to 44 years. If one sibling is 4 years younger than twice the other's age, what is the difference between their ages?

- A. 10 years
B. 12 years ✓
C. 14 years
D. 8 years

Q8 Quant

A train runs at 72 km/h for 3 hours and then at 60 km/h for 1.5 hours. What is the average speed of the train?

- A. 67 km/h
B. 68 km/h ✓
C. 65 km/h
D. 66 km/h

Q9 Quant

If $\sin 6A = \cos 12A$, find the value of $\tan 9A + \cot 9A$.

- A. 1
B. 0
C. 2 ✓
D. -2

Q10 Quant

A shopkeeper marks an item at ₹4,000. During a festival, he first offers a discount of 25% on the marked price. After a week, he increases the discounted price by 20% to earn more profit. What is the final selling price of the item after these successive changes?

A. ₹3,500

B. ₹3,700

C. ₹3,600

D. ₹3,400

Q11 Quant

The speeds of two cars are in the ratio 5 : 7. The faster car covers 140 km in 2 hours. How much distance will the slower car cover in the same time?

A. 100 km

B. 140 km

C. 70 km

D. 90 km

Q12 Quant

Evaluate $24^3 + (-7)^3 + (-17)^3$

A. 8450

B. 8396

C. 8345

D. 8568 **Q13 Quant**

A television is marked at ₹50,000. A retailer gives a 15% discount on the first 70% of the price and a 5% discount on the rest. What is the total percentage discount offered?

A. 13%

B. 12%

C. 10%

D. 11%

Q14 Quant

Which of the following digits should replace X so that the three-digit number 2X2 is divisible by 4?

A. 1

B. 0

C. 4

D. 2

Q15 Quant

Four numbers a, b, c and d satisfy the relation $(a + 2) : (b - 2) = (c + 4) : (d - 4)$. If a = 6, b = 8 and c = 12, find the value of d.

A. 16

B. 14

C. 20

D. 18

Q16 Quant

The largest four-digit number which when divided by 7, 6 and 10 leaves the remainder 5 in each case, is:

A. 9909

B. 9875

C. 9793

D. 9964

Q17 Quant

Two trains, X and Y, are running on parallel tracks. Train X is 200 m long and travels at 72 km/hr. Train Y is 300 m long. If the trains are traveling in opposite directions, they pass each other completely in 15 seconds. If the trains were traveling in the same direction, how long would it take for the faster train to overtake the slower one?

A. 72 seconds

B. 67.5 seconds

C. 75 seconds

D. 78 seconds

Q18 Quant

The diagonals of a rhombus-shaped field are 224 m and 420 m long. What is the perimeter (in m) of the field?

A. 904

B. 952

C. 944

D. 922

Q19 Quant

Calculate the total amount when ₹4000 is invested at 10% compound interest per annum, compounded annually for 2 years.

A. ₹4840

B. ₹4080

C. ₹4400

D. ₹4800

Q20 Quant

Two taps can fill a cistern in 4 hours and 11 hours, respectively. A third tap can empty it in 11 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 2

B. 3

C. 4

D. 1

**Q21 Quant**

A transaction code 92419 is not divisible by 13. To make it divisible by 13, the least digit should be appended at the end of the number. What is that digit?

A. 6



B. 5

C. 4

D. 2

Q22 Quant

The sum of two numbers is 72. If the larger number is increased by 8 and the smaller number is decreased by 6, then the resulting numbers are in the ratio 3 : 2, respectively. Find the smaller of the original two numbers.

A. 34.2

B. 32.5

C. 35

D. 35.6

**Q23 Quant**

If 40% of a number exceeds 25% of it by 36, then the number is:

A. 240



B. 280

C. 260

D. 220

Q24 Quant

The average of k numbers is x . If 48 is subtracted from each of any two of the numbers, then we get $(x-12)$ as the new average. Find the value of k .

A. 10

B. 5

C. 3

D. 8

**Q25 Quant**

Find the single discount equivalent to three successive discounts of 10% on a commodity.

A. 28.2%

B. 25.8%

C. 27.1%



D. 26.9%

Q26 Quant

If $9^x - 9^{x-1} = 72$, then the value of $\frac{2x-1}{2x+3}$ is:

A. $\frac{3}{7}$

B. $\frac{3}{8}$

C. $\frac{3}{5}$

D. $\frac{3}{4}$

Q27 Quant

Simplify

$$10.5 - [6.5 - \{3.3 - (3.2 - 2.2 - 1.8)\}]$$

A. 1

B. 10.5

C. 4.5

D. 0

Q28 Quant

A tank is being filled by two taps, M and N. M fills the tank completely in 18 hours and N fills it in 9 hours. A leakage at the bottom of the tank can empty the completely filled tank in 27 hours. How long will it take to fill the empty tank completely if both taps are opened while the leakage continues?

A. $6\frac{5}{7}$ hours

B. $7\frac{3}{7}$ hours

C. $7\frac{5}{7}$ hours

D. $6\frac{4}{7}$ hours



Q29 Quant

The curved surface area of a solid cylinder is numerically equal to the total surface area of another cylinder whose radius is half of the first cylinder. If the height and radius of the first cylinder are 7 cm and 4 cm, respectively. find the curved surface area of the second cylinder.

A. $42\pi \text{ cm}^2$

B. $48\pi \text{ cm}^2$ ✓

C. $65\pi \text{ cm}^2$

D. $52\pi \text{ cm}^2$

Q30 Quant

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 74 \text{ cm}$, $BC = 91 \text{ cm}$, $DC = 26 \text{ cm}$, and $AD = 39 \text{ cm}$, then what is the length (in cm) of EF?

A. 24 ✓

B. 21

C. 25

D. 22



Quant

Q1 Quant

If a sum of ₹70,000 amounts to ₹74,263 in X years under compound interest, compounded annually at 3% per annum, find X.

A. 3

B. 5

C. 2

D. 4

Q5 Quant

The cost price of 25 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

A. 20

B. 23

C. 16

D. 18

Q2 Quant

The salary of an employee is increased by 5% in the first year and again by 5% in the second year. What is the overall percentage increase in the salary after two years?

A. 10%

B. 11%

C. 11.5%

D. 10.25%

Q6 Quant

The fourth proportional to 1.2, 4.8, and 7.15 is:

A. 28.4

B. 28.6

C. 28.8

D. 28.2

Q3 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 39% and 3% on any number of toys bought.

(B) Successive discounts of 36%, 13% and 8% on any number of toys bought.

(C) 18% discount on the first 2 toys and 41% discount on each toy thereon.

(D) 5 toys free of cost on buying 7 toys.

A customer wants to buy 7 toys. Which of the above schemes is the least beneficial to her?

A. B

B. A

C. D

D. C

Q7 Quant

Two numbers are in the ratio 4 : 5. If their LCM is 240, what is the sum of the two numbers?

A. 96

B. 108

C. 120

D. 100

Q8 Quant

A quadrilateral has one diagonal of length 36 cm, and the perpendiculars from the other two vertices to this diagonal are 20 cm and 10 cm. What is the area of this quadrilateral?

A. 600 cm²B. 360 cm²C. 540 cm² D. 480 cm²

Q4 Quant

The total surface area of a cube having side 86 cm is:

A. 44,376 cm² B. 44,294 cm²C. 44,325 cm²D. 44,462 cm²

Q9 Quant

Ravi spends 70% of his income. If his income increases by 25% and his expenditure increases by 10%, by what percentage do his savings increase?

A. Savings increase by 60%

B. Savings increase by 40%

C. Savings increase by 30%

D. Savings increase by 50%

Q10 Quant

If ₹25,200 is invested at a simple interest rate of 6% per annum for 4 years, find the interest earned.

A. ₹6,070

B. ₹8,021

C. ₹6,048 ✓

D. ₹6,025

Q11 Quant

A rectangular garden has a length of 25 meters and a width of 18 meters. If a path of uniform width 2 meters is constructed around the outside of the garden, what is the perimeter of the outer edge of the path?

A. 112 meters

B. 102 meters ✓

C. 98 meters

D. 86 meters

Q12 Quant

Simplify: $30 + \{-9 \times (26 - 11 + 6)\}$

A. -162

B. -161

C. -159 ✓

D. -160

Q13 Quant

The sum of two positive numbers is 30 and their product is 176. The positive difference between them is:

A. 10

B. 7

C. 24

D. 14 ✓

Q14 Quant

If the third proportional to two numbers is 32 and the second number is 16, find the first number.

A. 7

B. 6

C. 8 ✓

D. 5

Q15 Quant

A store sells pens and notebooks. If 3 pens and 2 notebooks cost ₹120, and 2 pens and 4 notebooks cost ₹140, what is the price of one notebook?

A. ₹35.00

B. ₹25.00

C. ₹32.50

D. ₹22.50 ✓

Q16 Quant

A 104-metre-long train crosses another 94-metre-long train running in the same direction in 16.2 seconds. If the speed of the first train is 61 kmph, what is the speed of the second train in kmph?

A. 101 km/hr

B. 109 km/hr

C. 17 km/hr ✓

D. 105 km/hr

Q17 Quant

A train, 380 meters long, crosses a stationary train of length 340 m in 16 seconds. Find the speed of the train.

A. 162 km/h ✓

B. 166 km/h

C. 160 km/h

D. 164 km/h

Q18 Quant

A and B can do a piece of work in 12 days and 36 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 22

B. 21

C. 19

D. 20 ✓

Q19 Quant

Given the data set: 12, 36, 22, 27, 31, 17. What is the median value?

A. 27

B. 24.5 ✓

C. 22

D. 26.5



Q20 Quant

Three numbers are in the ratio 3 : 2 : 13, and their LCM is 6318. Their HCF is:8627

A. 124

B. 128

C. 80

D. 81

Q21 Quant

The mean proportional between two positive numbers is 30. If the difference between the two numbers is 45, what is the smaller of the two numbers?

A. 21

B. 18

C. 15

D. 12

Q22 Quant

A tank is normally filled by pipe A in 10 hours. Due to a leak, the tank takes 12 hours to fill. Find the time taken by the leak alone to empty a full tank.

A. 30 hours

B. 60 hours

C. 40 hours

D. 80 hours

Q23 Quant

A. 7

B. 5

C. 11

D. 9

Q24 Quant

The 7-digit number 32A776B is divisible by 24. What is the minimum value of (A + B)?

A. 6

B. 2

C. 4

D. 5

Q25 Quant

During a sale, 40% of the goods are sold at a profit of 10%. Of the remaining goods, 25% are sold at a profit of 15%, and the rest are sold at a loss of 29%. If there is an overall loss of x%, find the value of x.

A. 6.8

B. 3.5

C. 2

D. 1.5

Q26 Quant

What is the mode of the following data?

40, 41, 42, 51, 45, 43, 45, 43, 51, 40, 51, 54, 46, 50, 55, 47, 42, 46

A. 51

B. 42

C. 40

D. 41

Q27 Quant

The sum of the present ages of a mother and her daughter is 50 years. Five years ago, the mother's age was 7 times the daughter's age. What is the present age of the mother?

A. 40 years

B. 35 years

C. 38 years

D. 42 years

Q28 Quant

Simplify: $\frac{(1.5 \times 0.2)}{0.3}$

A. 0.01

B. 10

C. 0.1

D. 1



Q29 Quant

A shopkeeper wants to earn a profit of $11\frac{1}{9}\%$ even after giving two successive discounts of $16\frac{2}{3}\%$ and 20% on the marked price of an article. If the cost price of the article for the shopkeeper is ₹1800, what should its marked price be?

A. ₹3200

B. ₹3000

C. ₹2500

D. ₹2800



Q30 Quant

If \sqrt{x} of $\sqrt{2601} = (\sqrt{1089} + \sqrt{324}) \times 35$. Find the value of x .

A. 1225

B. 1223

C. 1227

D. 1221



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Quant

Q1 Quant

The arithmetic mean of the first 15 numbers is 82. The mean is reduced by 6 when one of the numbers is removed. Find the number that is excluded?

- A. 164
- B. 142
- C. 100
- D. 166

Q2 Quant

Two bells are rung at intervals of 1,764 seconds and 2,268 seconds, respectively. They are rung together at the start. After how much time will the two bells ring together again for the first time?

- A. 4 hours 12 minutes 18 seconds
- B. 4 hours 24 minutes 36 seconds
- C. 4 hours 18 minutes 12 seconds
- D. 4 hours 36 minutes 24 seconds

Q3 Quant

Which of the ratios given below is the greatest among them?

- A. 7 : 11
- B. 4 : 7
- C. 5 : 8
- D. 3 : 5

Q4 Quant

A person walks from point P to Q at 5 km/hr and returns from Q to P along the same route jogging at 10 km/hr. If the total time taken is 3 hours, what is the distance between P and Q?

- A. 5 km
- B. 10 km
- C. 20 km
- D. 15 km

Q5 Quant

The value of a machine depreciates by 10% every year. What is the total percentage depreciation after 2 years?

- A. 20%
- B. 22%
- C. 19%
- D. 21%

Q6 Quant

Sunil purchased a microwave oven for ₹7,000. He spent ₹400 on its transportation and ₹600 on repairs. He sold the oven for ₹9,800. What is his percentage profit on total investment?

- A. 22.5%
- B. 21.5%
- C. 20.5%
- D. 23.5%

Q7 Quant

A fruit seller sold mangoes at ₹600 per box last month. This month, he first increased the price by 10% due to transportation costs and then offered a discount of 15% on the increased price. What is the final price of one box of mangoes?

- A. ₹551
- B. ₹571
- C. ₹561
- D. ₹541

Q8 Quant

Which of the following numbers is completely divisible by 6?

- A. 6,42,538
- B. 8,91,452
- C. 7,53,216
- D. 5,47,821

Q9 Quant

Two taps can fill a cistern in 2 hours and 37 hours, respectively. A third tap can empty it in 37 hours. How long (in hours) will it take to fill half of the empty cistern if all the taps are opened together?

- A. 1
- B. 2
- C. 3
- D. 4

Q10 Quant

If the interest on a sum of ₹y at 10% per annum compounded annually for 2 years is ₹462, then the total amount payable at the end of the two-year period will be _____.

- A. ₹2,762
- B. ₹2,862
- C. ₹2,662
- D. ₹2,962

Q11 Quant

In a class, the average score of 8 boys is 56 and the average score of 4 girls is 80. What is the average score of all 12 students?

- A. 62
- B. 64
- C. 68
- D. 66

Q12 Quant

Three numbers are in the ratio 4 : 13 : 9, and their LCM is 6084. Their HCF is:8621

- A. 23
- B. 12
- C. 48
- D. 13

Q13 Quant

The perimeter of a rhombus is 100 meters and one of its diagonals is 14 meters long. What is the length of the other diagonal?

- A. 50 meters
- B. 42 meters
- C. 40 meters
- D. 48 meters

Q14 Quant

A train of length 180 meters is running at a speed of 72 km/h. How much time will it take to cross a bridge 350 meters long?

- A. 24.5 seconds
- B. 23.5 seconds
- C. 26.5 seconds
- D. 27.5 seconds

Q15 Quant

- A. -1
- B. 2
- C. 0
- D. 1

Q16 Quant

The ratio of two numbers is 3 : 5. If 6 is subtracted from each, the resulting numbers are in the ratio 1 : 2. Find the difference between the two original numbers.

- A. 12
- B. 14
- C. 10
- D. 16

Q17 Quant

A and B invest in a business in the ratio 5 : 7. After 4 months, C joins the business with an investment equal to the amount invested by A. At the end of one year, the total profit is ₹92,000. Find the sum (in ₹) of the shares of partners B and C.

- A. ₹62,000
- B. ₹66,800
- C. ₹49,600
- D. ₹64,400

Q18 Quant

The 7-digit number 46A484B is divisible by 24. What is the minimum value of (A + B)?

- A. 3
- B. 1
- C. 6
- D. 4



Q19 Quant

If a two-digit number has a digit sum of 9 and adding 27 reverses its digits, determine the unit digit of the number.

A. 4

B. 3

C. 6

D. 5

Q23 Quant

The sum of two positive numbers is 27 and their product is 170. The positive difference between them is:

A. 12

B. 2

C. 19

D. 7

Q20 Quant

The present age of a man is 4 years more than twice the present age of his son. After 6 years, the sum of their ages will be 58 years. What is the present age of the son?

A. 11 years

B. 14 years

C. 9 years

D. 10 years

Q24 Quant

What sum (in ₹) will earn a simple interest of ₹1,320 in 3 years at 20% per year rate of interest?

A. 792

B. 2,200

C. 4,400

D. 1,100

Q21 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 16% and 29% on any number of toys bought.

(B) Successive discounts of 4%, 34% and 37% on any number of toys bought.

(C) 12% discount on the first 4 toys and 27% discount on each toy thereon.

(D) 4 toys free of cost on buying 10 toys.

A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

A. B

B. D

C. C

D. A

Q25 Quant

A dealer sells a product at 15% profit. If he had bought it at 10% less and sold it for ₹126 less, he would have gained 20%. Find the cost price.

A. ₹1,400

B. ₹2,000

C. ₹1,200

D. ₹1,800

Q26 Quant

Pipes X, Y, and Z together can fill a tank in 8 hours. If all three work together for 3 hours, and then pipe Z is closed, the remaining tank is filled by X and Y in 10 hours. In how many hours can pipe Z alone fill the empty tank?

A. 32

B. 24

C. 18

D. 16

Q22 Quant

A streaming service charges ₹150 per month. If you buy an annual plan (12 months) with a 15% discount, what is your total savings (in ₹) compared to paying monthly for a year?

A. 270

B. 180

C. 300

D. 240

Q27 Quant

If a triangle has sides a , b , c , and fixed sum $a + b + c = 18$, then the maximum possible area (in cm^2) of the triangle is

A. $12\sqrt{3}$

B. $6\sqrt{3}$

C. $3\sqrt{3}$

D. $9\sqrt{3}$

Q28 Quant

Find the diameter of a sphere of surface area 28962 cm^2 . (round off to the closest integer)

(Use $\pi = \frac{22}{7}$)

A. 48 cm

B. 96 cm

C. 108 cm

D. 98 cm

Q29 Quant

Simplify the following expression using the BODMAS rule:

$$\frac{3}{4} + \left(\frac{5}{6} \times \frac{9}{10}\right) - \frac{2}{3}$$

A. A. $\frac{6}{5}$

B. B. $\frac{3}{5}$

C. C. $\frac{13}{5}$

D. D. $\frac{5}{6}$

Q30 Quant

Simplify: $\left\{\frac{12}{33} \div \frac{12}{2}\right\} \div \left(\frac{3}{7} \times \frac{14}{9} + \frac{3}{11}\right) + \frac{2}{8} \div \frac{31}{25}$ of $\frac{25}{8}$

A. A. $\frac{4}{31}$

B. B. $\frac{5}{24}$

C. C. $\frac{5}{36}$

D. D. $\frac{7}{38}$

Quant

Q1 Quant

Lekhraj sells an article at a profit of 25%. If the cost price is increased by 20% and the selling price is reduced by 10%, what percentage loss will Lekhraj incur?

- A. 6.5%
- B. 7.5%
- C. 7.25%
- D. 6.25%

Q2 Quant

What is the arithmetic mean of the dataset {12, 25, 37, 48, 56, 61, 73, 85, 92, 104}?

- A. 59.3
- B. 57.3
- C. 56.3
- D. 58.3

Q3 Quant

A sum of ₹25,000 is invested at 2% per annum compounded annually. Find the compound interest after 2 years.

- A. ₹1,230
- B. ₹1,010
- C. ₹1,130
- D. ₹1,050

Q4 Quant

Two trains, A and B, start simultaneously from stations Delhi and Mumbai respectively towards each other on parallel tracks. After meeting, train A takes 16 hours to reach Mumbai, and train B takes 9 hours to reach Delhi. If train A's speed is 60 km/h, what is the length of train B (in meters), given that it crosses a pole in 18 seconds?

- A. 300
- B. 400
- C. 420
- D. 280

Q5 Quant

Yogesh invested a certain sum of money at 10% per annum. After 2 years, he received ₹147 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

- A. 135
- B. 130
- C. 140
- D. 125

Q6 Quant

If the third proportional to 4 and 6 is used as the base of a rectangle, and the first number (4) is its height, what is the area of the rectangle?

- A. 48 unit²
- B. 36 unit²
- C. 30 unit²
- D. 24 unit²

Q7 Quant

Find the measure of the unknown interior angle in an irregular hexagon with angles 140°, 80°, 145°, 155°, and 100°.3534

- A. 105°
- B. 120°
- C. 100°
- D. 110°

Q8 Quant

Two taps can fill a cistern in 4 hours and 8 hours, respectively. A third tap can empty it in 4 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

- A. 2
- B. 8
- C. 6
- D. 4

Q9 Quant

A man is walking at 4 km/hr. A 180 m long train crosses him in 12 seconds while coming from the opposite direction. What is the speed of the train (in km/hr)?

A. 61

B. 32

C. 50

D. 45

Q10 Quant

Ram has ₹1000 in the denomination of ₹10, ₹20 and ₹5 notes. If the number of ₹10 notes is 16 more than that of ₹20 notes and the number of ₹5 notes is twice the number of ₹20 notes, find the total number of notes that Ram has.

A. 120

B. 80

C. 100

D. 90

Q11 Quant

The difference between a discount of 35% and two successive discounts of 20% and 15% on a certain marked price is ₹70. Find the marked price (rounded off to the nearest integer).

A. ₹2,333

B. ₹2,467

C. ₹2,433

D. ₹2,367

Q12 Quant

Pooja gets a discount of 17% on a dryer whose marked price is ₹2,000. Since she pays by credit card, she gets an additional 10% discount. How much does she pay (in ₹)?

A. 1,494

B. 1,495

C. 1,493

D. 1,491

Q13 Quant

The expenditures of R are 65% of his salary. If his salary increased by 10% and his savings are ₹3,150 more than previous savings, his expenditures are now 60% of his salary. His present salary is ₹_____.

A. 38,500

B. 35,000

C. 39,000

D. 37,500

Q14 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 35% and 4% on any number of toys bought.

(B) Successive discounts of 45%, 46% and 50% on any number of toys bought.

(C) 15% discount on the first 3 toys and 5% discount on each toy thereon.

(D) 2 toys free of cost on buying 9 toys.

A customer wants to buy 9 toys. Which of the above schemes is the least beneficial to her?

A. D

B. C

C. B

D. A

Q15 Quant

Two solid hemispheres are joined together to make a sphere. The total surface area of solids reduced by approximately ___%.

A. 25

B. 66.67

C. 50

D. 33.33 **Q16 Quant**

The average of 5 consecutive integers is 10. What is the smallest integer?

A. 8

B. 9

C. 7

D. 6

Q17 Quant

In a science experiment, chemicals X, Y, and Z are mixed in the ratio 5:2:3. If the total weight of the mixture is 100 grams, how much of chemical Y is present?

A. 10 grams

B. 50 grams

C. 20 grams

D. 30 grams

Q18 QuantEvaluate $20^3 + (-9)^3 + (-11)^3$

A. 5992

B. 5934

C. 5940

D. 6015

Q19 Quant

The enrolment of students in an institution increased by 10% in April compared to the number of students in March and then decreased by 5%, resulting in 1045 students in June. Find the number of students in March.

A. 900

B. 1085

C. 1000

D. 1050

Q20 QuantThe 5-digit number $7a35b$ is divisible by 45, where a and b are positive integers. What is the value of $(a + b)$?A. 12

B. 7

C. 5

D. 14

Q21 Quant

At present, a father is 30 years older than his son. In 12 years, the father will be three times as old as his son. What is the present age of the son?

A. 3 years

B. 4 years

C. 6 years

D. 5 years

Q22 QuantThree numbers are in the ratio $17 : 13 : 8$, and their LCM is 7072. Their HCF is: 8620A. 4

B. 23

C. 3

D. 12

Q23 Quant

If 9 workers can build a wall in 12 days, how many days will 6 workers take to build the same wall, assuming they work at the same rate?

A. 15

B. 17

C. 18

D. 16

Q24 QuantIf x is the mean proportional between $(a+b)$ and $(a-b)$, then find the value of x .A. $\sqrt{a^2 - b^2}$ B. $\sqrt{a + b}$ C. $\sqrt{a^2 + b^2}$ D. $\sqrt{a - b}$ **Q25 Quant**If $x = \sqrt{225} + \sqrt{484}$, what is the value of $x^2 - [(\sqrt{225})^2 + (32)^2]$?A. 120

B. 484

C. 100

D. 0

Q26 Quant

A keg is fitted with three taps A, B and C. If opened together, all the three taps will drain the full keg in $1\frac{1}{2}$ minutes. Taps A and B together take 3 minutes to drain the keg while taps B and C together take $4\frac{1}{2}$ minutes to drain it. How long (in minutes) taps A and C together take to drain the keg?

A. A. $\frac{4}{7}$

B. B. $\frac{4}{9}$

C. C. $\frac{5}{7}$

D. D. $\frac{9}{7}$ ✓

Q27 Quant

Find the value of m which satisfies

$$\left(\frac{19}{10}\right)^7 \times \left(\frac{10}{19}\right)^6 \times \left(\frac{19}{10}\right)^{10} = \left(\frac{10}{19}\right)^{6m+18}.$$

A. ✓

B.

C.

D.

Q28 Quant

A park is designed in the shape of a right-angled triangle, where the two shorter sides measure 13 m and 84 m. A circular track with a uniform width of 2 m is constructed such that its outer boundary coincides with the circumcircle of the triangular park. Determine the perimeter of the inner boundary of this circular track.

A. A. 81π m ✓

B. B. 85π m

C. C. 89π m

D. D. 82π m

Q29 Quant

The value of $\frac{(2.3)^3 + (1.5)^3 + (1.2)^3 - 3 \times 2.3 \times 1.5 \times 1.2}{(2.3)^2 + (1.5)^2 + (1.2)^2 - 2.3 \times 1.5 - 1.5 \times 1.2 - 1.2 \times 2.3}$ is equal to:

A. 5



B. 2

C. 4

D. 1

Q30 Quant

The angle of elevation of the top of a tree from a point on the ground is 30° . After moving 10 m towards the tree, the angle of elevation becomes 60° . Find the height of the tree.

A. $5\sqrt{3}$ m



B. $3\sqrt{3}$ m

C. $4\sqrt{3}$ m

D. $6\sqrt{3}$ m

Quant

Q1 Quant

A and B can do a piece of work in 12 days and 39 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 23

B. 21

C. 24

D. 22

Q5 Quant

A ladder leans against a wall, making an angle of 60° with the ground. If the foot of the ladder is 15 metres from the wall, what is the length of the ladder?

A. 30 m

B. 36 m

C. 42 m

D. 32 m

Q2 Quant

Sangeeta's salary is revised twice in two consecutive years. In the first year, the salary is increased by 12%. In the second year, it is decreased by 10%. Despite this, her salary after the second revision is ₹1,584 more than the original salary. What is Sangeeta's original monthly salary (in ₹)?

A. 1,98,000

B. 1,75,000

C. 1,89,000

D. 2,00,000

Q6 Quant

Three numbers are in the ratio 3 : 7 : 2, and their LCM is 8820. Their HCF is:

A. 210

B. 235

C. 240

D. 208

Q3 Quant

Simplify: $(0.25 \times 1.6) \div (0.04 \times 0.5)$

A. 10

B. 2

C. 20

D. 8

Q7 Quant

Evaluate $23^3 + (-14)^3 + (-9)^3$

A. 8502

B. 8581

C. 8694

D. 8498

Q4 Quant

The mean of the following data is 12.5. Find the missing frequency p.

Data Values (x): 10, 15

Frequency (f): 5, p

A. 6

B. 4

C. 3

D. 5

Q8 Quant

The average monthly income of six employees in an office is ₹24,000. When a new employee joins the office, the average income of all seven employees becomes ₹25,500. What is the monthly income of the new employee?

A. ₹34,500

B. ₹34,000

C. ₹33,000

D. ₹33,500

Q9 Quant

If the third proportional to 4 and 20 is m and the third proportional to m and 50 is n, what is the value of n?

A. 25



B. 24

C. 28

D. 20

Q10 Quant

Sphere A has a radius of 6 cm and Sphere B has a radius of 3 cm. What is the ratio of the surface area of A to that of B?

A. 3:1

B. 2:1

C. 6:1

D. 4:1

**Q11 Quant**

If the interest on a sum of ₹y at 4% per annum compounded annually for 2 years is ₹765, then the total amount payable at the end of the two-year period will be _____.

A. ₹10,115

B. ₹10,210

C. ₹10,351

D. ₹10,140

**Q12 Quant**

The amount under simple interest on a sum of ₹8,000 for 3 years at an interest rate of 7.5% per annum is

A. ₹9600

B. ₹9800



C. ₹9400

D. ₹10000

Q13 Quant

Which of the following ratios is equal to 3:2?

A. 120:80



B. 60:45

C. 35:25

D. 45:20

Q14 Quant

The population of a town increases by 10% in the year 2015 and decreases by 15% in the year 2016. If the population of the town at the end of the year 2016 is 1,87,000, find the population of the town in the beginning of the year 2015.

A. 2,15,000

B. 1,95,000

C. 2,10,000

D. 2,00,000

**Q15 Quant**

Pipes A and B together can fill a cistern in 10 hours. Pipes B and C together can fill the same cistern in 20 hours, and pipes C and A together can fill it in 12 hours. Find the time taken by pipe B alone to fill the cistern.

A. 30 hours



B. 32 hours

C. 25 hours

D. 28 hours

Q16 Quant

A spherical water tank has an internal diameter of 10 meters. If the tank is coated with a material that costs ₹5 per square meter, what is the total cost to coat the entire internal surface? (Use $\pi = 3.14$)

A. ₹785

B. ₹314

C. ₹1257

D. ₹1570

**Q17 Quant**

A train covers a distance of 300 kilometers in 5 hours. If the same train takes 6 hours to cover the same distance, what is the change in its speed?

A. 15 km/h decrease

B. 15 km/h increase

C. 10 km/h decrease



D. 10 km/h increase

Q18 Quant

Which of the following numbers is divisible by 11?

A. 4,915

B. 6,184

C. 3,762



D. 7,393

Q19 Quant

A pair of shoes is marked at ₹2800 and is subject to a trade discount of 18%. Under a special offer, a customer buys 5 pairs at the discounted price and gets an additional 2 pairs at 50% off the discounted price. Find the total cost to the customer for 7 pairs of shoes.

A. ₹ 13,667

B. ₹ 13,876

C. ₹ 13,776

D. ₹ 13,676

Q20 Quant

A delivery van covers the first 100 km at 50 km/h, the next 150 km at 60 km/h, and the last 50 km at 40 km/h. What is the average speed for the entire journey (correct to two places of decimal)?

A. 52.17 km/h

B. 54.54 km/h

C. 48.29 km/h

D. 50.05 km/h

Q21 Quant

Eight mangoes and five oranges cost ₹164, while five mangoes and eight oranges cost ₹148. Determine the cost of three mangoes and three oranges.

A. ₹74

B. ₹70

C. ₹76

D. ₹72

Q22 Quant

In a division sum, the divisor is 14 times the quotient and 5 times the remainder. If the remainder is 56, what is the dividend?

A. 5651

B. 5656

C. 5653

D. 5655

Q23 Quant

The present age of Person A is 5 years more than twice the age of Person B. If Person B is 15 years old, what is the present age (in years) of Person A?

A. 35

B. 34

C. 32

D. 33

Q24 Quant

In a college, the ratio of science to arts students is different for each of its three batches. In Batch A, the ratio is 5:8, in Batch B it is 7:11, and in Batch C it is 3:5. Which batch has the highest proportion of science students?

A. Batch B

B. All have the same proportion

C. Batch A

D. Batch C

Q25 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 21% and 8% on any number of toys bought.

(B) Successive discounts of 38%, 42% and 30% on any number of toys bought.

(C) 17% discount on the first 8 toys and 20% discount on each toy thereon.

(D) 7 toys free of cost on buying 10 toys.

A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

A. A

B. C

C. D

D. B

Q26 Quant

If a man bought an article at 20% less than its marked price and sold it for ₹10 more than its marked price, his profit was 40%. What was the marked price (in ₹) of the article (correct to two decimal places)?

A. ₹76.66

B. ₹86.66

C. ₹73.33

D. ₹83.33

Q27 Quant

Simplify: $\left\{ \frac{16}{36} \div \frac{16}{4} \right\} \div \left(\frac{2}{7} \times \frac{14}{6} + \frac{5}{12} \right) + \frac{4}{7} \div \frac{39}{12}$ of $\frac{12}{7}$

A. $\frac{8}{39}$ ✓

B. $\frac{12}{47}$

C. $\frac{7}{33}$

D. $-\frac{1}{43}$

Q28 Quant

In $\triangle XYZ$, $XY = XZ$ and $\angle X = 40^\circ$, what is the measure of $\angle Z$?

A. 60°

B. 70° ✓

C. 40°

D. 80°

Q29 Quant

A trader buys a consignment of goods for ₹2400. He sells one-third of the goods at a 20% profit, and one-fourth of the goods at a 10% loss, and the remaining goods at cost price. What is the overall profit or loss percentage?

A. $4\frac{1}{6}\%$ loss

B. $4\frac{1}{6}\%$ profit ✓

C. $4\frac{1}{5}\%$ loss

D. $4\frac{1}{5}\%$ profit

Q30 Quant

Simplify: $\frac{5^{3x} \times (5^2)^{x-1}}{5^{4x-1}}$

A. 5^{x-1} ✓

B. 5^{x+1}

C. 5^{1-x}

D. 5^{x-3}

Quant

Q1 Quant

Which of the following ratios is the greatest?

a) 7 : 11 b) 9 : 14c) 11 : 18 d) 13 : 21

A. 9 : 14



B. 11 : 18

C. 13 : 21

D. 7 : 11

Q2 Quant

Which of the following pairs of numbers is not coprime?

A. (171, 273)



B. (173, 351)

C. (127, 257)

D. (177, 827)

Q3 Quant

A group of 3 adults and 4 children pay ₹380 for movie tickets. Another group of 2 adults and 3 children pay ₹270 for the same tickets. What is the price of one adult ticket?

A. ₹70

B. ₹60



C. ₹50

D. ₹80

Q4 Quant

The largest four-digit number which when divided by 15, 12 and 14 leaves remainder 5 in each case is:

A. 9665



B. 9595

C. 9192

D. 9988

Q5 Quant

The sum of all interior angles of a regular polygon is 1800° . How many diagonals does the polygon have?

A. 53

B. 54



C. 51

D. 50

Q6 Quant

Pipe A can fill a cistern in 12 hours and another pipe B can empty it in 18 hours. Pipe A is opened first and after 4 hours, pipe B is also opened. In how much total time will the cistern be filled?

A. 32 hours

B. 24 hours

C. 28 hours



D. 36 hours

Q7 Quant

The diagonals of a rhombus are mutually perpendicular and bisect each other. One diagonal is 10 cm longer than the other. If the area of the rhombus is 600 cm^2 , the perimeter (in cm) of the rhombus is:

A. 100 cm



B. 84 cm

C. 96 cm

D. 120 cm

Q8 Quant

A bookseller bought 7 identical sets of books at ₹375 each. He sold 3 sets at a profit of 16% per set and the remaining sets at a profit of 24% per set. What was his total profit (in ₹) from selling all the sets?

A. ₹540



B. ₹572

C. ₹504

D. ₹588

Q9 Quant

A sum of money amounts to ₹4,600 in 3 years at 5% simple interest per annum. What is the sum?

A. ₹4,200

B. ₹3,500

C. ₹3,800

D. ₹4,000



Q10 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

- (A) Successive discounts of 43% and 19% on any number of toys bought.
- (B) Successive discounts of 41%, 21% and 49% on any number of toys bought.
- (C) 35% discount on the first 5 toys and 3% discount on each toy thereon.
- (D) 4 toys free of cost on buying 5 toys.

A customer wants to buy 5 toys. Which of the above schemes is the least beneficial to her?

A. A

B. B

C. D

D. C

**Q11 Quant**

Which of the following numbers is not divisible by 88?

A. 1144

B. 1058



C. 968

D. 1232

Q12 Quant

The ages of a mother and daughter are 36 years and 12 years, respectively. In how many years will the mother be twice the age of the daughter?

A. 8 years

B. 15 years

C. 10 years

D. 12 years

**Q13 Quant**

A, B, and C start a business by investing ₹60,000, ₹80,000, and ₹1,20,000, respectively. After one year, the total profit earned is ₹78,000. By how much does C's share exceed B's share?

A. ₹9,400

B. ₹12,000



C. ₹9,800

D. ₹10,600

Q14 Quant

A tank can be filled by pipe P in 8 hours and by pipe Q in 4 hours. If they open alternately for one hour each with Q starting first, what is the total time taken to fill the tank?

A. 5 hours and 20 minutes

B. 4 hours and 40 minutes

C. 6 hours

D. 5 hours

**Q15 Quant**

Chitra gets a discount of 40% on a water cooler whose marked price is ₹2,200. Since she pays by credit card, she gets an additional 20% discount. How much does she pay (in ₹)?

A. 1,056



B. 1,058

C. 1,055

D. 1,059

Q16 Quant

Two buses start at the same time from two towns that are 264 km apart and travel towards each other along the same highway. The first bus travels at a speed of 22 km/h, while the second bus travels at a speed of 26 km/h. After how much time will they meet?

A. 6.5 hours

B. 5.5 hours



C. 5 hours

D. 6.25 hours

Q17 Quant

If the simple interest on ₹5,000 for T years at 6% p.a. equals the simple interest on ₹7,500 for 4 years at 4% per annum, then find the value of T.

A. 2

B. 1

C. 3

D. 4



Q18 Quant

A student initially scored equal marks in Mathematics and Physics. Later, the marks in Mathematics increase by 20% of the original Mathematics marks, while the marks in Physics decrease by 10% of the original Physics marks. Taking the initial total marks as the base, what is the overall percentage change in the total marks?

- A. No change
- B. 5% increase** ✓
- C. 5% decrease
- D. 10% increase

Q19 Quant

The average of 5 numbers is 18.5. If one number is removed, the average of the remaining 4 numbers becomes 16. Find the number that was removed.

- A. 29
- B. 29.5
- C. 28.5** ✓
- D. 28

Q20 Quant

The present ages of two sisters are in the ratio 5:7. After 4 years, their ages will be in the ratio 6:8. Find the present age of the younger sister.

- A. 18 years
- B. 22 years
- C. 20 years** ✓
- D. 24 years

Q21 Quant

If the salary of a person is first increased by 15% and thereafter decreased by 12%, what is the net change in his salary?

- A. 1.2% increase** ✓
- B. 1.4% decrease
- C. 1.2% decrease
- D. 1.32% decrease

Q22 Quant

Evaluate $21^3 + (-2)^3 + (-19)^3$

- A. 2397
- B. 2394** ✓
- C. 2468
- D. 2354

Q23 Quant

A Company produces 1,520 packets of noodles in 5 hours. How many packets will it produce in 17 hours at the same rate?

- A. 5,816
- B. 5,618
- C. 5,168** ✓
- D. 5,861

Q24 Quant

A cricketer has scored an average of 55 runs in 9 matches. In the 10th match, he scores 85 runs. What is his new average?

- A. 56
- B. 55
- C. 58** ✓
- D. 57

Q25 Quant

A shopkeeper offers two successive discounts of 18% and 15% on a frock whose marked price is ₹1,000. What is the final selling price (in ₹) of the frock?

- A. 679
- B. 697** ✓
- C. 769
- D. 796

Q26 Quant

Three friends Arshdeep, Sandeep and Avtar are on a trip by a car. Arshdeep drives during the first 3 hours at an average speed of 52 km/hr. Sandeep drives during the next 4 hours at an average speed of 65 km/hr. Avtar drives for the next 3 hours at an average speed of 76 km/hr. They reached their destination after exactly 10 hours. Their average speed during the journey was:

- A. 65.2 km/hr
- B. 56.4 km/hr
- C. 60.2 km/hr
- D. 64.4 km/hr** ✓

Q27 Quant

Simplify: $\frac{3 + \sqrt{6}}{5\sqrt{3} - 2\sqrt{12} - \sqrt{32} + \sqrt{50}}$

A. A. $\sqrt{3}$

B. B. $\sqrt{5}$

C. C. $\sqrt{2}$

D. D. $\sqrt{6}$

Q28 Quant

If $\sin A = \frac{5}{7}$, find the value of $\frac{5 \operatorname{cosec} A - 7 \sin A}{2\sqrt{6} \sec A + 7 \cos^2 A}$.

A. A. $\frac{11}{46}$

B. B. $\frac{3}{19}$

C. C. $\frac{9}{23}$

D. D. $\frac{14}{73}$

Q29 Quant

Find the value of m which satisfies

$$\left(\frac{14}{6}\right)^8 \times \left(\frac{6}{14}\right)^3 \times \left(\frac{14}{6}\right)^{10} = \left(\frac{6}{14}\right)^{9m+9}$$

A.

B. B. $-\frac{8}{3}$

C.

D.

Q30 Quant

The length of each edge of a cube is 10 cm. If a sphere is inscribed inside the cube, what is the ratio of the surface area of the sphere to the outer surface area of the cube?

A. A. $\pi:6$

B. B. $3:\pi$

C. C. $\pi:3$

D. D. $6:\pi$

Quant

Q1 Quant

Aman and Raj invested ₹12,000 and ₹18,000, respectively, in a business. After one year, they earned a profit of ₹15,000. How much profit will each get?

- A. Aman: ₹7,500, Raj: ₹7,500
- B. Aman: ₹5,000, Raj: ₹10,000
- C. Aman: ₹6,000, Raj: ₹9,000 ✓
- D. Aman: ₹8,000, Raj: ₹7,000

Q2 Quant

A car covers a distance of 180 km in 3 hours. Find its average speed.

- A. 80 km/h
- B. 60 km/h ✓
- C. 50 km/h
- D. 70 km/h

Q3 Quant

In a parallelogram, the difference of two adjacent angles is 40° . Find the measure of the smaller angle.

- A. 80°
- B. 60°
- C. 50°
- D. 70° ✓

Q4 Quant

A shopkeeper sells a watch for ₹840 after giving a 30% discount. What was the marked price (in ₹) of the watch?

- A. 1,000
- B. 1,200 ✓
- C. 1,050
- D. 1,100

Q5 Quant

40 persons begin to work together on a job. But after some days 10 persons left the work. As a result, the job which should have been completed in 50 days is completed in 60 days. How many days after the commencement of the work did the 10 persons leave?

- A. 20 ✓
- B. 18
- C. 22
- D. 15

Q6 Quant

The price of an article is decreased by 24%, but the daily sale of the article is increased by 33%. Find the net effect on the daily sale receipts.

- A. 1.08% decrease
- B. 2.16% increase
- C. 1.08% increase ✓
- D. 2.16% decrease

Q7 Quant

Find the median of the following data (correct to two places of decimal).

Class interval 0-6 6-12 12-18 18-24 24-30 30-36 Frequency 5 7 10 13 9 8

- A. 26.48
- B. 19.85 ✓
- C. 21.23
- D. 29.73

Q8 Quant

A sum of money amounts to ₹19,360 in 3 years at 10% per annum, compounded annually. The compound interest (in ₹) earned is (Round off your answer to the nearest paise.)

- A. ₹4914.55
- B. ₹4714.55
- C. ₹4814.55 ✓
- D. ₹4614.55

Q9 Quant

If 9 notebooks cost ₹135, how much will 20 notebooks of the same type cost?

A. ₹300



B. ₹320

C. ₹280

D. ₹270

Q10 Quant

Three automatic doors in a metro station undergo system checks at regular intervals of 14 minutes, 18 minutes, and 21 minutes, respectively. If all three doors are checked together at the start, after how many minutes will they be checked together again for the first time?

A. 126 minutes



B. 132 minutes

C. 136 minutes

D. 142 minutes

Q11 Quant

Three numbers are in the ratio 5 : 14 : 9, and their LCM is 7560. Their HCF is:8622

A. 32

B. 53

C. 12



D. 11

Q12 Quant

Five years ago, the age of Kavita was one-third of the present age of her mother. After 5 years, the sum of their ages will be 75 years. What is Kavita's present age?

A. 22 years

B. 21 years

C. 23 years

D. 20 years

**Q13 Quant**

Riya and Neha have certain amount of money. If Riya gives ₹20 to Neha, then Riya will have three times as much money as Neha. However, if Neha gives ₹40 to Riya, then Riya will have five times as much money as Neha. What is the total amount of money (in ₹) that Riya and Neha initially had together?

A. 710

B. 690

C. 720



D. 700

Q14 Quant

A shopkeeper bought 7 decorative lamps for ₹2,850. Due to damage, 2 lamps could not be sold. He sold the remaining lamps at ₹360 each. What is his total loss (in ₹)?

A. ₹960

B. ₹1,050



C. ₹1,100

D. ₹840

Q15 Quant

A cylindrical tank has a radius of 7 m and a height of 11 m. How many litres of water can it hold? (Use $\pi = 22/7$)

A. 16,84,000

B. 16,64,000

C. 16,74,000

D. 16,94,000

**Q16 Quant**

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 18% and 39% on any number of toys bought.

(B) Successive discounts of 29%, 45% and 4% on any number of toys bought.

(C) 29% discount on the first 8 toys and 31% discount on each toy thereon.

(D) 7 toys free of cost on buying 8 toys.

A customer wants to buy 8 toys. Which of the above schemes is the least beneficial to her?

A. B

B. C



C. A

D. D

Q17 Quant

A trader sells rice, claiming 1 kg but actually gives x grams. He marks the price 20% above the cost price and gives a 10% discount on the marked price. If his overall profit is 25%, find x .

- A. 864
- B. 856
- C. 870
- D. 825

Q18 Quant

Sarang invested a certain sum of money at 10% per annum. After 2 years, he received ₹178.5 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

- A. 180
- B. 170
- C. 165
- D. 185

Q19 Quant

Two taps can fill a cistern in 4 hours and 18 hours, respectively. A third tap can empty it in 18 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

- A. 1
- B. 3
- C. 4
- D. 2

Q20 Quant

The price of an article increases and decreases alternately by 20% every year. If the difference between the prices at the end of the second year and third year is ₹1,920, find 40% of the price (in ₹) of the article at the end of the first year.

- A. ₹2,400
- B. ₹3,600
- C. ₹4,800
- D. ₹3,200

Q21 Quant

The sum of two positive numbers is 77 and their product is 1392. The positive difference between them is:

- A. 37
- B. 21
- C. 19
- D. 24

Q22 Quant

Find the mode of the following distribution: Class 5-15 15-25 25-35 35-45 Frequency 6 14 18 12

- A. 30
- B. 26
- C. 29
- D. 28

Q23 Quant

The cost of a certain fabric is directly proportional to its length for a given width. If the cost of 8 meters of the fabric is ₹3,200, what will be the cost of 25 meters of the same fabric?

- A. ₹10,000
- B. ₹9,600
- C. ₹9,800
- D. ₹9,400

Q24 Quant

In a fitness park, a straight walking path is divided into three consecutive segments. The lengths of the first and third segments are 18 m and 50 m respectively. If the length of the middle segment is the mean proportional between the other two, what is its length?

- A. 27 m
- B. 36 m
- C. 25 m
- D. 30 m

Q25 Quant

If p is a prime number and $\text{GCD}(p^2-1, p^2+1) = 2$, then the value of p must be:

- A. Only 2
- B. Only 3
- C. Any prime number
- D. Any odd prime

Q26 QuantFind the value of m which satisfies

$$\left(\frac{23}{5}\right)^{13} \times \left(\frac{5}{23}\right)^9 \times \left(\frac{23}{5}\right)^5 = \left(\frac{5}{23}\right)^{6m+9}$$

A.

B.

C.

D.

Q27 Quant

Two trains, X and Y, start at the same time from Delhi and Mumbai towards each other. After meeting, train X takes 6 hours to reach Mumbai, and train Y takes 8 hours to reach Delhi. If train X's speed is 60 km/h, what is the speed of train Y?

A. $30\sqrt{2}$ km/hB. $30\sqrt{3}$ km/h C. $28\sqrt{2}$ km/hD. $28\sqrt{3}$ km/h**Q28 Quant**Simplify: $18 - [6 \times 2 - (3 + 1)] + 7$ A. 17

B. 21

C. 19

D. 15

Q29 Quant

The value of $(\cos^2 67^\circ - \sin^2 23^\circ) + 4 \cos 30^\circ$ is:3574

A. $\sqrt{3}$

B. $5\sqrt{2}$

C. $2\sqrt{3}$ ✓

D. $3\sqrt{2}$

Q30 Quant

A solid right circular cylinder has curved surface area $1408\pi \text{ cm}^2$. If the volume of the cylinder is maximum, then the ratio of radius to height is

A. **1:4**

B. **1:2** ✓

C. **1:3**

D. **2:1**



Quant

Q1 Quant

Two taps can fill a cistern in 4 hours and 16 hours, respectively. A third tap can empty it in 4 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 4 B. 8 C. 16 D. 12

Q2 Quant

Simplify: $30 + \{-9 \times (26 - 13 + 5)\}$

A. -134 B. -132 C. -133 D. -135

Q3 Quant

The price of fuel decreases by 55%, 35% and 45% in three successive months, but increases by 40% in the fourth month. What is the percentage decrease in the price of fuel in the fourth month as compared to its original price? (Round off to 2 decimal places.)

A. 81.67% B. 76.52% C. 73.05% D. 77.48%

Q4 Quant

A shirt's price is decreased from ₹200 to ₹180. What is the percentage decrease?

A. 15% B. 20% C. 10% D. 5%

Q5 Quant

The fourth proportional to 4, 6, and 8 is m. The third proportional to 8 and m is n. What is the value of n?

A. 16 B. 20 C. 18 D. 24

Q6 Quant

A shopkeeper marks a jacket at ₹2,000. He gives a 20% discount, but charges 5% GST on the discounted price. What is the final price the customer pays?

A. ₹1,700 B. ₹1,680 C. ₹1,596 D. ₹1,880

Q7 Quant

Evaluate $22^3 + (-15)^3 + (-7)^3$

A. 6826 B. 6930 C. 6929 D. 6981

Q8 Quant

A regular octagonal fountain has a circumradius of 10 m. Find the approximate length of each side.

A. 7.65 m B. 8.71 m C. 6.13 m D. 9.27 m

Q9 Quant

If the height at which a ladder touches the wall is the mean proportional between 6 meters and 24 meters, at what height does the ladder touch the wall?

A. 16 meters B. 18 meters C. 14 meters D. 12 meters

Q10 Quant

A sum of ₹2000 is invested at 20% compound interest per annum, compounded annually for 2 years. What is the compound interest earned at the end of 2 years?

A. ₹1000

B. ₹880

C. ₹900

D. ₹800

Q15 Quant

The H.C.F. and L.C.M. of two numbers are 25 and 500, respectively. If the first number is divided by 2, the quotient is 50 and the remainder is zero. Find the second number.

A. 125

B. 100

C. 50

D. 250

Q11 Quant

A can complete a job in 9 days, while each of B and C can complete it in 18 days. All three start working together and work for x days. Then A leaves, and B and C together finish the remaining work in x days. Find the value of x .

A. 3.5

B. 4

C. 3

D. 4.5

Q16 Quant

What sum (in ₹) will earn a simple interest of ₹1,440 in 2 years at 12% per year rate of interest?

A. 345.6

B. 3,000

C. 6,000

D. 12,000

Q12 Quant

What is the third proportional to 0.25 and 0.15?

A. 0.04

B. 0.09

C. 0.02

D. 0.15

Q17 Quant

The present age of Amit is twice that of his brother Sumit. Five years ago, the ratio of their ages was 5:2. What is Sumit's present age?

A. 15 years

B. 10 years

C. 20 years

D. 8 years

Q13 Quant

The arithmetic mean of 25 observations is 32.6. If the arithmetic mean of the first 24 observations is 30, what is the 25th observation?

A. 90

B. 85

C. 80

D. 95

Q18 Quant

An amount of ₹120 is paid using ₹10, ₹5 and ₹2 coins. If the number of coins of ₹10 and ₹2 are interchanged, then the amount becomes ₹304. If the number of ₹5 and ₹2 coins are interchanged, then the amount is ₹165. How many ₹2 coins are used in the payment of ₹120?

A. 15

B. 10

C. 25

D. 20

Q14 Quant

A motorist travels a certain journey in two stages. In the first stage, he travels for one-third of the total time at 30 km/hr. In the second stage, he travels for the rest of the time at 60 km/hr. He returns to the start at a uniform speed of 75 km/hr. What is the average speed for the entire round trip?

A. 60 km/hr

B. 58 km/hr

C. 62 km/hr

D. 55 km/hr

Q19 Quant

A shopkeeper marks an article at 40% above the cost price and allows a discount of 25%. What is the percentage profit or loss?

A. 15% profit

B. 5% profit

C. 5% loss

D. 15% loss

Q20 Quant

A bus travels at a uniform speed of 54 km/hr. How many meters does it cover in 1 minute?

A. 800 meters

B. 750 meters

C. 900 meters

D. 600 meters

Q21 Quant

Five friends participated in a cooking contest and scored 6, 8, 7, 9, and 5 out of 10, respectively. What is the arithmetic mean of their scores?

A. 7

B. 8

C. 8.5

D. 6.5

Q22 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 34% and 37% on any number of toys bought.

(B) Successive discounts of 36%, 15% and 14% on any number of toys bought.

(C) 33% discount on the first 6 toys and 9% discount on each toy thereon.

(D) 3 toys free of cost on buying 9 toys.

A customer wants to buy 9 toys. Which of the above schemes is the least beneficial to her?

A. A

B. C

C. B

D. D

Q23 Quant

A dishonest shopkeeper professes to sell his goods at a 35% loss but uses a false balance and gains 85%. The actual weight (rounded off to one decimal place) he uses for 1 kg is:

A. 349.4 gm

B. 348.5 gm

C. 351.4 gm

D. 347.2 gm

Q24 Quant

Three numbers are in the ratio 4 : 3 : 13, and their LCM is 4524. Their HCF is:8624

A. 29

B. 49

C. 45

D. 21



Q25 Quant

Simplify: $\left\{ \frac{15}{42} \div \frac{15}{3} \right\} \div \left(\frac{3}{10} \times \frac{20}{9} + \frac{5}{14} \right) + \frac{3}{6} \div \frac{43}{20}$ of $\frac{20}{6}$

A. $\frac{6}{43}$ ✓

B. $\frac{4}{37}$

C. $\frac{14}{47}$

D. $\frac{11}{45}$

Q26 Quant

Add $\frac{11}{16}$ and 0.4375. What is the sum in decimal form?

A. 0.975

B. 1.208

C. 0.958

D. 1.125 ✓

Q27 Quant

If $\cos A = \frac{4}{5}$, find the value of $\frac{\sin^2 A - 5 \cos^2 A + \sec^2 A}{\tan^2 A}$.

A. $-\frac{451}{225}$

B. $\frac{109}{225}$

C. $-\frac{511}{225}$ ✓

D. $\frac{23}{225}$

Q28 Quant

A square is drawn inside another square such that each vertex of the inner square lies at the midpoint of a side of the outer square. If the perimeter of the inner square is 40 cm, find the perimeter of the outer square.

A. $40\sqrt{2}$ cm ✓

B. 40 cm

C. $20\sqrt{2}$ cm

D. $80\sqrt{2}$ cm



Q29 Quant

The base of a triangle is 18 cm and height is 20 cm. Find the height of another triangle of double the area having base 24 cm.

A. A. 30 cm



B. B. 22 cm

C. C. 20 cm

D. D. 24 cm

Q30 Quant

Find the value of k for which the expression $x^3 - 3x^2 - 7x - k$ will be divisible by $(x - 5)$.

A. 15



B. -5

C. -15

D. 5



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Quant

Q1 Quant

If the compound interest on a sum for 2 years at 5% per annum is ₹102.50, what is the sum?

A. ₹1,100

B. ₹950

C. ₹1,000

D. ₹1,025

Q5 Quant

The sum of the ages of a daughter and her mother is 76 years. After 4 years, the age of the mother will be three times that of the daughter. What is the present age (in years) of the mother?

A. 18

B. 57

C. 17

D. 59

Q2 Quant

The average of 8 numbers is 45. If each number is decreased by 4, what will the new average be?4633

A. 8

B. 41

C. 37

D. 45

Q6 Quant

A bus covers 90 km in 3 hours. If the speed of the bus is increased by 5 kmph, find the time taken to cover a distance of 70 km?

A. 2.5 hours

B. 2 hours

C. 3 hours

D. 3.5 hours

Q3 Quant

Three numbers in the ratio 2 : 5 : 7 are taken as the first, second, and third terms, respectively. If their fourth proportional is 140, find the middle number.

A. 30

B. 35

C. 50

D. 40

Q7 Quant

Ritu covers a distance of 40 km at 20 km/h and another distance at 40 km/h in 3 hours. Find the average speed for the whole journey.

A. 26 km/h

B. 32 km/h

C. 38 km/h

D. 31 km/h

Q4 Quant

The average of five numbers 7, 11, 15, x, and 23 is 15. What is the value of x?

A. 17

B. 19

C. 21

D. 23

Q8 Quant

Two taps can fill a cistern in 4 hours and 10 hours, respectively. A third tap can empty it in 10 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 1

B. 4

C. 2

D. 3

Q9 Quant

A sum of ₹8,000 is invested at a compound interest rate of 12.5% per annum for 2 years, compounded annually. What is the compound interest earned?

A. ₹2,250

B. ₹2,125 ✓

C. ₹2,000

D. ₹2,500

Q10 Quant

A and B can complete a task in 20 days and 25 days, respectively. They started working together, but B left after 5 days. How many more days will A take to finish the remaining work?

A. 9 days

B. 11 days ✓

C. 10 days

D. 12 days

Q11 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 5% and 30% on any number of toys bought.

(B) Successive discounts of 18%, 15% and 5% on any number of toys bought.

(C) 11% discount on the first 5 toys and 47% discount on each toy thereon.

(D) 2 toys free of cost on buying 5 toys.

A customer wants to buy 5 toys. Which of the above schemes is the least beneficial to her?

A. A

B. C ✓

C. D

D. B

Q12 Quant

The largest four-digit number which when divided by 6, 14 and 7 leaves remainder 5 in each case is:

A. 9973

B. 9998

C. 9959 ✓

D. 9946

Q13 Quant

During a sale, 50% of the goods are sold at 21% profit, 40% of the remaining goods are sold at 36% profit and the still remaining goods are sold at a loss of 29%. If there is an overall profit of $x\%$, then what is the value of x ?

A. 8.5

B. 10

C. 9 ✓

D. 9.5

Q14 Quant

The perimeter of a rectangle is 56 cm. Its length is 4 cm more than twice its breadth. Find the breadth.

A. 10 cm

B. 6 cm

C. 8 cm ✓

D. 12 cm

Q15 Quant

If a square's diagonal is extended by 6 units beyond a vertex, forming a triangle outside the square, what is the angle between this extension and the adjacent side of the square?

A. 45 degrees ✓

B. 30 degrees

C. 60 degrees

D. 90 degrees

Q16 Quant

What is the digit y if the number $6y512$ is exactly divisible by both 8 and 9?

A. 6

B. 2

C. 8

D. 4 ✓

Q17 Quant

A trader buys a chair for ₹200, sells it at a 10% profit, and then the buyer sells it again at a 15% profit. What is the final selling price?

A. ₹242

B. ₹253 ✓

C. ₹260

D. ₹230

Q18 Quant

The price of an article is increased by 25%. By what percentage should the increased price be reduced so that it becomes equal to the original price?

A. 22%

B. 30%

C. 20%

D. 25%

Q19 Quant

In a division sum, the divisor is 5 times the quotient and 4 times the remainder. If the remainder is 15, what is the dividend?

A. 735

B. 734

C. 739

D. 740

Q20 Quant

A shopkeeper marks an article 40% above its cost price. He then allows two successive discounts of 18% and 5% on the marked price. Find the profit percentage.

A. 8.96%

B. 9.06%

C. 9.77%

D. 8.07%

Q21 Quant

Girish scored 448 marks in an examination and was 64 marks short of 16% of maximum marks. In the same examination, his friend scored 672 marks. What is the percentage of marks scored by his friend?

A. 22%

B. 19%

C. 24%

D. 21%

Q22 Quant

Two bags contain marbles in the ratio 5 : 7. If 12 marbles are transferred from the second bag to the first bag, the ratio of marbles in the two bags becomes 7 : 5. Find the original number of marbles in the second bag.

A. 63

B. 72

C. 42

D. 68

Q23 Quant

The sum of two positive numbers is 35 and their product is 286. The positive difference between them is:

A. 8

B. 18

C. 9

D. 14

Q24 Quant

A. 4

B. 3

C. 7

D. 5

Q25 Quant

Find the third proportional to 6 and 12.

A. 18

B. 48

C. 24

D. 36

Q26 Quant

An altitude of $12\sqrt{2}$ cm is drawn to the base of an isosceles triangle. The perimeter of this triangle is 48 cm. Find the area of the triangle.

A. $12\sqrt{2}$ cm²

B. $36\sqrt{2}$ cm²

C. $72\sqrt{2}$ cm² ✓

D. $60\sqrt{2}$ cm²

Q27 Quant

Simplify $\left\{\left(\frac{14}{24}\right) \div \left(\frac{14}{9}\right)\right\} \div \left(\frac{3}{7} \times \frac{14}{9} + \frac{5}{8}\right) + \frac{9}{10} \div \frac{31}{24}$ of $\frac{24}{10}$

A.

B.

C. ✓

D.

Q28 Quant

Simplify: $5.25 + 2.75 - \frac{3}{5} - \frac{2}{5} \times \frac{10}{20}$

A. 6.2

B. 7.2 ✓

C. 8.2

D. 5.2

Q29 Quant

If $x^2 \times x^3 = x^a$ and $\frac{x^2}{x^b} = x^1$, what is the value of $a + b$?

A. 4

B. 7

C. 5

D. 6 ✓

Q30 Quant

A solid cube is melted and half of its material is recast into a cuboid whose length, breadth, and height are in the ratio 2 : 1 : 1. The difference between the volume of the original cube and the cuboid formed is 250 cm³. Find the total surface area of the cuboid.

A. 100 cm²

B. 250 cm² ✓

C. 80 cm²

D. 120 cm²

Quant

Q1 Quant

Three numbers are in the ratio 17 : 5 : 11, and their LCM is 3740. Their HCF is:8626

A. 14

B. 4

C. 47

D. 2

Q2 Quant

A metallic sphere of radius 6 units is melted and recast into 27 smaller identical spheres. Find the ratio of the surface area of the larger sphere to the sum of the surface areas of all the smaller spheres.

A. 1:4

B. 2:5

C. 1:3

D. 2:3

Q3 Quant

If a car covers a distance of 150 km at a speed of 50 km/h, how much time does it take to complete the journey?

A. 4 hours

B. 2 hours

C. 3 hours

D. 5 hours

Q4 Quant

The third proportional to 75 and 45 is the same as the fourth proportional to 10, $5x$ and $6x$. Find the value of x .

A. 3

B. 5

C. 4

D. 2

Q5 Quant

The price of an article increases by 25%, then decreases by 20%, and finally increases by 15%. What is the overall percentage change in the price?

A. 25%

B. 10%

C. 20%

D. 15%

Q6 Quant

In a division sum, the divisor is 9 times the quotient and 3 times the remainder. If the remainder is 42, what is the dividend?

A. 1809

B. 1806

C. 1808

D. 1803

Q7 Quant

From a regular octagon of side 4 units, a largest rectangle is cut out. From the remaining pieces, two largest rectangles are cut out. The remaining area of the octagon is ____ square units.

A. 32

B. 16

C. 24

D. 8

Q8 Quant

If the price of a shirt increases from ₹400 to ₹500, what is the percentage increase in the price?

A. 10%

B. 15%

C. 30%

D. 25%

Q9 Quant

A and B can do a piece of work in 12 days and 36 days, respectively. Both work for 2 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 29

B. 30

C. 28

D. 27

Q10 Quant

2 men and 8 women can complete a piece of work in 13 days, and 3 men and 19 women can complete the same work in 8 days. The work of how many women is equivalent to that of one man?

A. 24

B. 29

C. 25

D. 23

Q11 Quant

A sum of money at compound interest, compounded annually grows to ₹24000 in 2 years and ₹28800 in 3 years. Find the annual rate of interest.

A. 10%

B. 20%

C. 15%

D. 25%

Q12 Quant

A school teacher observes that 4 years ago, her age was three times the age of her daughter at that time. 8 years from now, the teacher's age will be twice her daughter's age. What is the present age of the teacher?

A. 42 years

B. 44 years

C. 40 years

D. 38 years

Q13 Quant

Two alloys A and B contain copper and zinc in the ratio 3:4 and 5:9, respectively. If equal weights of both alloys are melted together to form a new alloy, what is the ratio of copper to zinc in the new alloy?

A. 11:17

B. 9:16

C. 12:19

D. 8:13

Q14 Quant

A sum of money earns ₹2,400 as simple interest in 2 years at 12% per annum. Find the sum.

A. ₹24,000

B. ₹12,000

C. ₹18,000

D. ₹10,000

Q15 Quant

In a division sum, the divisor is 2 times the quotient and 3 times the remainder. If the remainder is 10, what is the dividend?

A. 460

B. 465

C. 464

D. 456

Q16 Quant

A milkman adds two litres of water to every eight litres of milk and sells it at 50% more than his cost price of milk. Find the profit percentage of the milkman.

A. 87.5%

B. 68.5%

C. 50%

D. 75%

Q17 Quant

If a recipe requires ingredients in the ratio 1:2 and you have 3 cups of the first ingredient, how many cups of the second ingredient should you use?

A. 8

B. 6

C. 4

D. 3

Q18 Quant

The monthly incomes (in ₹ thousands) of ten employees are 35, 40, 38, 50, 46, 42, 39, 37, 41, and 44. What is the median income of the employees (in ₹ thousands)?

A. 40

B. 40.5

C. 41

D. 42

Q19 Quant

Lata walks from home to the market, 20 km away, at 10 km/h. She stays there for 1 hour for shopping and returns home by an e-rickshaw at 20 km/h. Find the average speed for the whole trip.

- A. 9 km/h
- B. 6 km/h
- C. 8 km/h
- D. 10 km/h

**Q22 Quant**

A dealer of stationery items buys two types of pens, named Rajat Pen and Naveen Pen. The cost of 4 Rajat Pens and 6 Naveen Pens together is ₹540. The cost of one Naveen Pen is ₹15 more than the cost of one Rajat Pen. What is the cost of one Rajat Pen?

- A. ₹48
- B. ₹50
- C. ₹45
- D. ₹42

**Q20 Quant**

During a sale, 50% of the goods are sold at 37% profit, 30% of the remaining goods are sold at 26% profit and the still remaining goods are sold at a loss of 24%. If there is an overall profit of $x\%$, then what is the value of x ?

- A. 13.5
- B. 15
- C. 14
- D. 14.5

**Q23 Quant**

Evaluate $22^3 + (-13)^3 + (-9)^3$

- A. 7604
- B. 7722
- C. 7472
- D. 7730

**Q21 Quant**

A shop sold 5 types of items over a week: 120, 150, 110, 130, and 140 units respectively. After receiving a return of 10 units from the first item, what is the new arithmetic mean (in units) of items sold?

- A. 124
- B. 126
- C. 122
- D. 128

**Q24 Quant**

A shopkeeper marks the price of a washing machine 40% above its cost price. He offers a 25% discount on the marked price to attract customers. If the final selling price of the washing machine is ₹21,000, what was its cost price?

- A. ₹16,000
- B. ₹15,000
- C. ₹20,000
- D. ₹14,000

**Q25 Quant**

Simplify the following expression:

$$\left(\frac{3}{4}\right) + 0.25 \times 2$$

- A. 1.75
- B. 1.50
- C. 1.00
- D. 1.25

**Q26 Quant**

A dealer buys an article marked at ₹1800 after successive discounts of 25% and $6\frac{2}{3}\%$. Find the cost price of the article to the dealer.

- A. ₹1260
- B. ₹1250
- C. ₹1275
- D. ₹1290



Q27 Quant

Simplify: $\frac{\sin A \cos(90^\circ - A)}{\cot(90^\circ + A) \cos(180^\circ + A)}$

A. $-\cos A$

B. $\sin A$ ✓

C. $-\sin A$

D. $\cos A$

Q28 Quant

Find the value of m which satisfies

$$\left(\frac{28}{8}\right)^{17} \times \left(\frac{8}{28}\right)^{20} \times \left(\frac{28}{8}\right)^3 = \left(\frac{8}{28}\right)^{9m + 14}$$

A.

B. $-\frac{13}{9}$

C. ✓

D.

Q29 Quant

A cube is melted and recast into a cuboid whose dimensions are in the ratio 4:5:8. If the height of the cuboid is 12 cm, then the edge of the original cube is (correct to 2 decimal places)

A. **8.14 cm** ✓

B. 15.34 cm

C. 12.12 cm

D. 9.44 cm

Q30 Quant

Simplify: $9^2 + \sqrt{4^2} - 10 \times \sqrt{81} - 15$

A. -12

B. -10

C. -20 ✓

D. -21



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Quant

Q1 Quant

Seven years ago Ramu was five times as old as his son. The present age difference between Ramu and his son is 28 years. Find the sum of their present ages.

- A. 30 years
 B. 28 years
 C. 56 years ✓
 D. 73 years

Q2 Quant

If the consecutive angles of a parallelogram are in the ratio 2:3, what is the measure of the smaller angle?

- A. 70°
 B. 72° ✓
 C. 74°
 D. 76°

Q3 Quant

Two trains of lengths 250 m and 300 m run in opposite directions at 72 km/hr and 108 km/hr. In how many seconds will they completely cross each other?

- A. 15 seconds
 B. 11 seconds ✓
 C. 12 seconds
 D. 14 seconds

Q4 Quant

Four prime numbers are listed in order. If the product of the first three is 105 and the product of the last three is 385, what is the largest prime number?

- A. 17
 B. 13
 C. 7
 D. 11 ✓

Q5 Quant

An article is sold at a loss of 12% on its cost price. If the same article were sold for ₹84 more than its original selling price, the seller would make a profit of 8% on the same cost price. What is the cost price of the article?

- A. ₹420 ✓
 B. ₹430
 C. ₹410
 D. ₹400

Q6 Quant

The sum of two positive numbers is 51 and their product is 230. The positive difference between them is:

- A. 61
 B. 52
 C. 32
 D. 41 ✓

Q7 Quant

To earn ₹15,000 as simple interest in 5 months at 12% per annum, what should be the invested amount?

- A. ₹3,00,000 ✓
 B. ₹3,50,000
 C. ₹2,00,000
 D. ₹2,50,000

Q8 Quant

A trader initially marks all his goods 60% above the cost price. He sells half of the goods at a discount of 25% on the marked price. For the remaining half, he revises the marked price to 80% above the cost price and then offers a discount of 30%. Find the overall profit percentage earned by the trader.

- A. 22%
 B. 20%
 C. 21%
 D. 23% ✓

Q9 Quant

A recipe requires sugar and flour in the ratio 7:11. If you have 154 grams of sugar and want to maintain the same proportion, how much flour should you use?

A. 220 grams

B. 264 grams

C. 198 grams

D. 242 grams

Q10 Quant

A shopkeeper offers a fixed discount of 15% on rice and 100 gm rice free with every purchase of 1.9 kg rice. Find the overall discount percent offered by him on rice.

A. 19.50%

B. 19.25%

C. 19.10%

D. 20.00%

Q11 Quant

A merchant buys tea at ₹100 per kg and sells it using a 800 g weight as 1 kg, after marking the price up by 25% and giving a discount of 20%. What is his profit per kg?

A. ₹10

B. ₹15

C. ₹25

D. ₹20

Q12 Quant

A landscape architect is designing a garden in the shape of a quadrilateral where the diagonals intersect at right angles but are not equal in length. If the diagonals are 12 meters and 16 meters, what is the area of the garden?

A. 192 square meters

B. 96 square meters

C. 48 square meters

D. 64 square meters

Q13 Quant

A family consumes 12 units of electricity per day. Cost per unit is ₹8. How much do they pay for a 31-day month?

A. ₹2,967

B. ₹2,976

C. ₹2,769

D. ₹2,796

Q14 Quant

In an apartment complex, the monthly electricity consumption (in units) for five flats is 320, 400, 360, 340, and 380. If the residents want to know the average monthly consumption (in units) per flat by using the direct method, what value will they obtain?

A. 360

B. 365

C. 355

D. 350

Q15 Quant

A rectangular garden has a length of 16 meters and a width of x meters. If the width is the mean proportional between 4 meters and 64 meters, what is the value of x ?

A. 12

B. 8

C. 16

D. 24

Q16 Quant

There are 400 multiple choice questions in a test. 4 marks are allotted for a correct answer and 1 mark is deducted for a wrong answer or unattempted question from total score of correct answers. If a candidate has scored 1280 marks in the test, how many questions did the candidate answer correctly?

A. 336

B. 346

C. 315

D. 322

Q17 Quant

If the ratio of two numbers is 8 : 3, and their HCF is 8, then their LCM is:8616

A. 229

B. 186

C. 192

D. 200



Q18 Quant

If the amount payable after 2 years is 1.1025 times of the sum invested, at compound interest (compounded annually), what is the rate of interest per annum?

A. 10%

B. 2%

C. 5%

D. 3.5%

Q19 Quant

A train travels at a speed of 54 km/h for 20 minutes. What distance does it cover?

A. 18 km

B. 15 km

C. 12 km

D. 20 km

Q20 Quant

The fourth proportional to three positive numbers is 120. If the first number is twice the second, and the third number is five times the first, then find the sum of all the three numbers.

A. 336

B. 300

C. 288

D. 312

Q21 Quant

Let p and q be distinct positive prime numbers such that $p > q$ and $p^2 - q^2 = 45$. What is the value of $p + q$?

A. 12

B. 13

C. 9

D. 10

Q22 Quant

An investment decreases by 30% in the first year, increases by 30% in the second year, and then increases by 20% in the third year. What is the overall percentage change from the initial value?

A. 10.2% decrease

B. 9.2% decrease

C. 10.2% increase

D. 9.2% increase

Q23 Quant

If 45% of a number exceeds 20% of it by 48, then the number is:

A. 232

B. 172

C. 212

D. 192

Q24 Quant

A and B can do a piece of work in 12 days and 33 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 20

B. 17

C. 19

D. 18

Q25 QuantFind the value of m which satisfies

$$\left(\frac{23}{8}\right)^{12} \times \left(\frac{8}{23}\right)^{15} \times \left(\frac{23}{8}\right)^9 = \left(\frac{8}{23}\right)^{8m+8}$$

A.

B.

C.

D. $-\frac{7}{4}$ **Q26 Quant**

Simplify:

$$\frac{(3^5 \times 6^4 \times 4^3)}{(3^2 \times 6^2 \times 4^1)}$$

A. 15559

B. 15552

C. 15554

D. 15558

**Q27 Quant**

Pipes A and B fill a tank in 20 and 30 minutes, respectively. If both are opened together, after how many minutes will the tank be $\frac{2}{3}$ full?

A. 10 minutes

B. 12 minutes

C. 8 minutes

D. 16 minutes

**Q28 Quant**

A group consists of 25% boys, 55% girls, and the rest are teachers. Their average weights are 50 kg, 55 kg, and 65 kg, respectively. What is the average weight (in kg) of the group?

A. A. 58.43 kg

B. B. 55.75kg

C. C. 62.34 kg

D. D. 52.14 kg



Q29 Quant

If $\sin \theta + \cos \theta = \sqrt{2} \cos \theta$, where, $0 < \theta < 90^\circ$, then the value of $\tan \theta$ is:

A. $\sqrt{2} - 1$

B. $\sqrt{3}$

C. 1

D. $\frac{1}{\sqrt{3}}$

Q30 Quant

The volume of a cylinder having height 27 cm and radius 7 cm is:

$(\pi = \frac{22}{7})$

1368

A. 4158 cm³

B. 4146 cm³

C. 4187 cm³

D. 4068 cm³

Quant

Q1 Quant

Two banks, A and B, offered loans at 3.5% and 6.5% per annum, respectively. Ajay borrowed an amount of ₹2,60,000 from each bank. Find the positive difference between the amounts of simple interest (in ₹) paid to the two banks by Ajay after 2 years.

A. 15,600

B. 17,100

C. 16,600

D. 15,100

Q2 Quant

A cylindrical tank has a diameter of 12 m and a height of 10 m. If the tank is closed at both ends, what is the ratio of its curved surface area to its total surface area?

A. 5:8

B. 4:7

C. 2:5

D. 3:5

Q3 Quant

Find the rate of interest at which the simple interest on ₹15,000 for 4 years is ₹3,600.

A. 4%

B. 7%

C. 5%

D. 6%

Q4 Quant

A tank is filled by two pipes, A and B, and emptied by a third pipe C. Pipe A fills the tank in 10 hours and pipe B in 15 hours. Pipe C empties it in 20 hours. If all three pipes are opened together, and pipe C is closed after 4 hours, how much total time will it take to fill the tank?

A. 8.2 hours

B. 8 hours

C. 7.2 hours

D. 7.5 hours

Q5 Quant

The marked price of an article is ₹500. During a sale, its price is reduced to ₹450. What is the percentage decrease in price?

A. 12%

B. 10%

C. 8%

D. 5%

Q6 Quant

Find the least value of $(4K^2+2M)$ for which the five digits number 7KM93 is divisible by 9.

A. 16

B. 12

C. 27

D. 14

Q7 Quant

X, Y, and Z enter into a partnership. X invests ₹60,000 for 12 months, Y invests ₹80,000 for 6 months, and Z invests ₹1,20,000 for 4 months. If the total profit is ₹77,000, what is the share of Z?

A. ₹20,000

B. ₹18,000

C. ₹22,000

D. ₹24,000

Q8 Quant

A delivery rider travels from Warehouse A to Store B, a distance of 48 km, at a speed of 32 km/hr. On the return journey along the same route, due to traffic, he travels at a speed of 24 km/hr. What is the rider's average speed for the entire trip? (Round off up to two decimal places.)

A. 27.43 km/hr

B. 24.56 km/hr

C. 23.74 km/hr

D. 26.85 km/hr

Q9 Quant

From the top of a cliff 80 meters high, the angles of depression of two ships in the same direction are 30° and 60° . Find the distance between the ships (rounded off to two decimal places).

A. 92.38 meters

B. 92.58 meters

C. 92.78 meters

D. 92.18 meters

Q10 Quant

The original price of a refrigerator was \$1,500. During a clearance sale, it was initially discounted by 30%, followed by an additional 10% discount on the reduced price. What is the total percentage discount applied to the refrigerator?

A. 30%

B. 37%

C. 40%

D. 35%

Q11 Quant

A train overtakes two runners moving in the same direction at speeds of 5 km/h and 7 km/h, passing them completely in 18 seconds and 20 seconds, respectively. What is the length of the train (in metres)?

A. 100

B. 90

C. 80

D. 70

Q12 Quant

Two taps can fill a cistern in 4 hours and 22 hours, respectively. A third tap can empty it in 22 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 4

B. 3

C. 2

D. 1

Q13 Quant

4 years ago, the age of Shyam was seven times the age of his son, Rajat. After 8 years, Shyam's age will be three times the age of Rajat. Find the present age of Shyam.

A. 42 years

B. 45 years

C. 46 years

D. 38 years

Q14 Quant

Find the mean of the following data. Class interval 0-8 8-16 16-24 24-32 32-40 40-48 Frequency 4 6 7 3 12 8

A. 30.5

B. 27.4

C. 25.2

D. 29.3

Q15 Quant

Evaluate $22^3 + (-18)^3 + (-4)^3$

A. 4617

B. 4819

C. 4800

D. 4752

Q16 Quant

The measure of an interior angle of a regular polygon is 162° . Find the number of sides of the polygon.

A. 22

B. 18

C. 20

D. 12

Q17 Quant

A shirt originally costing ₹800 is first decreased by 30% and then increased by 15%. What is its new price?

A. ₹680

B. ₹644

C. ₹750

D. ₹714

Q18 Quant

The largest four-digit number which when divided by 10, 11 and 8 leaves remainder 7 in each case is:

A. 9687



B. 9978

C. 9557

D. 9398

Q19 Quant

A shopkeeper sells two types of pens, A and B. The total number of pens sold in a day is 120. The price of pen A is ₹12 each and pen B is ₹8 each. If the total sale amount is ₹1120, how many pens of type A did he sell?

A. 40



B. 50

C. 70

D. 80

Q20 Quant

An article marked at ₹1,250 is sold at two successive discounts such that the selling price becomes ₹900. If the first discount is 20%, what is the second discount?

A. 12%

B. 15%

C. 10%



D. 8%

Q21 Quant

Which of the following is a pair of co-primes?

A. 42 and 56

B. 25 and 36



C. 44 and 99

D. 27 and 36

Q22 Quant

The average of 12 numbers is 38. If two more numbers 50 and 62 are included, the new average is (Round off your answer to two decimal places.)

A. 38.57

B. 39.57

C. 40.57



D. 41.57

Q23 Quant

The mean proportional between 12 and a number is twice the mean proportional between 9 and 16. Find the number.

A. 48



B. 72

C. 56

D. 60

Q24 Quant

Nitin sells two articles for ₹2,973 each with no profit, no loss in the entire transaction. If one article was sold at a gain of 50%, then the other article is sold at a loss of:

A. 25%



B. 26%

C. 27%

D. 22%

Q25 Quant

A shopkeeper marks the price of sugar 24% above the cost price and gives a discount of 18%, but uses a weight of 800 grams instead of 1 kg. Find his overall profit percentage.

A. 26%

B. 28%

C. 27.1%



D. 25.4%



Q26 Quant

Find the mean proportional between $(2 + \sqrt{3})$ and $(10 - \sqrt{75})$.

A. $\sqrt{2}$

B. $\sqrt{5}$

C. $\sqrt{3}$

D. $2 + \sqrt{3}$

Q27 Quant

Find the value of $\left\{ \frac{(3)^{-5} \times (8)^5 \times (125)^3 \times (36)^3}{(100)^4 \times 256 \times 216 \times (2)^2} \right\}$.

A. $\frac{2}{7}$

B. $\frac{5}{9}$

C. $\frac{4}{5}$

D. $\frac{3}{8}$

Q28 Quant

The sides of a rectangular field are 55 m and 70 m long. Its area is equal to the area of a circular field. What is the perimeter (in m) of the circular field?

$$\pi = \frac{22}{7}$$

(Take $\pi = \frac{22}{7}$)

A. 220

B. 197

C. 181

D. 174

Q29 Quant

Simplify: $\frac{340}{17} \times \frac{156}{13} + \frac{1484}{28} - \frac{14}{10}$

A. A. 291.6



B. B. 281.6

C. C. 271.6

D. D. 261.6

Q30 Quant

Simplify: $\left(\frac{\sqrt[3]{4096}}{\sqrt[4]{10000}} \right) \times \frac{5}{48} \times 186$

A. 31



B. 30

C. 36

D. 29



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Quant

Q1 Quant

A shopkeeper fixes the marked price of an item 150% above its cost price. What percentage of discount on marked price should be allowed to gain 110%?

A. 17%

B. 16%

C. 15%

D. 14%

Q5 Quant

At what annual interest rate will a principal amount of ₹1,000 become ₹1,728 in a period of 1 year and 6 months, assuming that the interest is compounded semi-annually?

A. 35%

B. 40%

C. 41%

D. 32%

Q2 Quant

The average of 6.5, 10.8, 20 and a is 13. The value of a is:5091

A. 13.7

B. 15.7

C. 14.7

D. 16.7

Q6 Quant

Two articles are sold at the same selling price. On one article, the trader makes a 25% profit, and on the other, he incurs a 25% loss. What is the overall percentage loss?

A. 6.25%

B. 5.25%

C. 8.25%

D. 7.25%

Q3 Quant

The price of an article is first increased by 30% and then decreased by 20%. Due to these successive changes, the final price becomes ₹40 more than the original price. What is the original price of the article?

A. ₹1,000

B. ₹900

C. ₹1,100

D. ₹1,200

Q7 Quant

If the fourth proportional to 5, 15, and 25 is k, then find k.

A. $k = 60$ B. $k = 125$ C. $k = 75$ D. $k = 90$

Q4 Quant

Find the greatest number that divides 75, 105 and 150 exactly.

A. 15

B. 5

C. 10

D. 25

Q8 Quant

The sum of two numbers is 54. If three times the smaller number exceeds twice the larger number by 6, find the difference between the two numbers.

A. 7.6

B. 6.6

C. 8.4

D. 7.2



Q9 Quant

A certain sum amounts to ₹5,200 in 2 years and ₹6,400 in 4 years at simple interest. What is the rate of interest per annum?

- A. 10 percent
- B. 18 percent
- C. 12 percent
- D. 15 percent

Q10 Quant

Two friends, P and Q, started a business by investing ₹2,300 and ₹4,600, respectively. At the end of one year, the business earned a total profit of ₹37,272. What is the share (in ₹) of P in the profit?

- A. 12,424
- B. 12,274
- C. 12,524
- D. 12,374

Q11 Quant

In a triangle, the ratio of three angles is 3 : 3 : 4. Find the measure of the largest angle.

- A. 84°
- B. 72°
- C. 62°
- D. 40°

Q12 Quant

Three positive integers a, b, and c satisfy the following conditions: (i) a and b are coprime, (ii) b and c are coprime, (iii) a and c are not coprime, (iv) $abc = 360$. The minimum possible value of $a + b + c$ is:

- A. 95
- B. 23
- C. 27
- D. 33

Q13 Quant

A merchant marks his products 30% above the cost price and provides a 10% discount on the marked price. What percent profit does he earn?

- A. 15%
- B. 17%
- C. 18%
- D. 16%

Q14 Quant

A team of 3 workers, P, Q, and R, is assigned to paint a large wall. P alone can finish the work in 14 days, Q alone in 21 days, and R alone in 42 days. If they start together but P leaves after 4 days, and the remaining work is completed by Q and R together, in how many total days is the wall completely painted?

- A. 9 days
- B. 10 days
- C. 11 days
- D. 12 days

Q15 Quant

The largest four-digit number which when divided by 12, 8 and 11 leaves the remainder 3 in each case, is:

- A. 9928
- B. 9535
- C. 9771
- D. 9821

Q16 Quant

Two trains are moving in opposite directions at speeds of 8 m/s and 10 m/s. If they completely pass each other in 8 seconds, find the combined length of both trains.

- A. 150 meters
- B. 152 meters
- C. 144 meters
- D. 156 meters

Q17 Quant

A car travels from Gwalior to Jhansi at 60 km/hr and returns at 80 km/hr. If the total travel time is 3.5 hours, what is the one-way distance?

- A. 120 km
- B. 110 km
- C. 125 km
- D. 112 km

Q18 Quant

The sum of two positive numbers is 40 and their product is 175. The positive difference between them is:

- A. 36
- B. 30
- C. 32
- D. 34

Q19 Quant

The sum of the ages of two siblings is 28 years and the difference of their ages is 8 years. What is the present age of the elder sibling?

A. 14 years

B. 16 years

C. 20 years

D. 18 years

Q20 Quant

A product with marked price ₹3,000 is sold with successive discounts of 15% and 25%. What is the final selling price after these two discounts?

A. ₹1,936.50

B. ₹1,912.50

C. ₹1,872

D. ₹1,896

Q21 Quant

The average of 8 numbers is 45. If each number is decreased by 3, what will the new average be?

A. 39

B. 8

C. 45

D. 42

Q22 Quant

Find the third proportional to 240 and 120.

A. 50

B. 80

C. 40

D. 60

Q23 Quant

If 45% of a number exceeds 20% of it by 30, then the number is:

A. 100

B. 120

C. 160

D. 140

Q24 Quant

Four identical cubes are placed one after another and the length of the cuboid so formed is 256 cm. Find the volume of a single cube.

A. 262144 cm³

B. 262154 cm³

C. 362144 cm³

D. 265144 cm³

Q25 Quant

Which of the following pairs of numbers is co-prime?

A) (15, 25)

B) (14, 35)

C) (9, 28)

D) (21, 49)

A. B

B. C

C. D

D. A

Q26 Quant

A and B can do a piece of work in 12 days and 24 days, respectively. Both work for 2 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 19

B. 17

C. 20

D. 18

Q27 Quant

A ladder of length 8 m is placed against a vertical wall, making an angle of 60° with the ground. How high does the ladder reach up the wall?

A. $5\sqrt{3}$ m

B. $6\sqrt{3}$ m

C. $4\sqrt{3}$ m

D. $3\sqrt{3}$ m

Q28 Quant

The sides of a rectangular field are 77 m and 98 m long. Its area is equal to the area of a circular field. What is the perimeter (in m) of the circular field?

$$\pi = \frac{22}{7}$$

(Take $\pi = \frac{22}{7}$)

A. 304

B. 308

C. 330

D. 353

Q29 Quant

If $3^x - 3^{x-1} = 18$, then the value of $\frac{2x-1}{2x+3}$ is:

A. $\frac{5}{13}$

B. $\frac{5}{9}$

C. $\frac{5}{12}$

D. $\frac{5}{6}$

Q30 Quant

The value of $\frac{27^{\frac{2}{3}} \cdot 9^{-\frac{1}{2}}}{3^{-1} \cdot 81^{\frac{1}{4}}}$ is

A. 9

B. 1

C. 6

D. 3

Quant

Q1 Quant

Find the surface area of a sphere of radius 7 cm. (Take $\pi = 22/7$)

A. 616 sq cm

B. 484 sq cm

C. 704 sq cm

D. 588 sq cm

Q6 Quant

The average of 6.5, 10.8, 19.9 and a is 18. The value of a is:5094

A. 35.8

B. 33.8

C. 34.8

D. 36.8

Q2 Quant

A sum of ₹10,000 is invested at a compound interest rate of 10% per annum for 2 years, compounded annually. What is the compound interest earned?

A. ₹2,000

B. ₹2,100

C. ₹1,900

D. ₹2,200

Q7 Quant

A new cuboid is formed by placing three cuboids of length 10.5 cm, breadth 6.4 cm, and height 2 cm, one on top of the other. What is the volume of the new cuboid?

A. 503.2 cm³

B. 303.2 cm³

C. 403.2 cm³

D. 413.2 cm³

Q3 Quant

What is the correct ascending order of the following ratios?

11:15, 23:55, 32:33, 4:11, 26:35

A. 4:11, 11:15, 23:55, 26:35, 32:33

B. 4:11, 23:55, 11:15, 26:35, 32:33

C. 4:11, 26:35, 11:15, 23:55, 32:33

D. 4:11, 23:55, 26:35, 11:15, 32:33

Q8 Quant

At a health club, 40% of the members are women and 60% of the members are men. If the average age of the men is 51 years and the average age of the women is 55 years, what is the average age (in years) of all the members?

A. 52.6

B. 59.7

C. 60.9

D. 50.2

Q4 Quant

The ratio of the age of a father and his son at present is 6:1. After 5 years from now, the ratio will become 7:2. Find the present age of the son.

A. 7 years

B. 5 years

C. 4 years

D. 8 years

Q9 Quant

What is the smallest number that must be added to 45873 so that the sum is divisible by 11?

A. 9

B. 4

C. 8

D. 6

Q5 Quant

Evaluate $25^3 + (-20)^3 + (-5)^3$

A. 7467

B. 7500

C. 7244

D. 7360

Q10 Quant

After successive discounts of 15% and 10%, a customer pays ₹3,672. What was the marked price?

A. ₹4,700

B. ₹4,750

C. ₹4,800

D. ₹4,850

Q11 Quant

The simple interest on a sum is 25% of the sum in 5 years. Find the rate of interest.

A. 4%

B. 3%

C. 5%

D. 25%

Q12 Quant

The price of an item is increased by 15% and then by 20%. Now the price of the item is decreased so that the overall effective increment in the price is 5%. The price is decreased approximately by ____%.

A. 21.39

B. 23.91

C. 23.19

D. 21.93

Q13 Quant

If 27 and 81 are the first two terms of a proportion and the third proportional to these numbers is used as the length of a rectangle whose width is 4 units, what is the numeric value of the area of the rectangle?

A. 486

B. 972

C. 6561

D. 729

Q14 Quant

A and B can do a piece of work in 12 days and 18 days, respectively. Both work for 2 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 15

B. 14

C. 13

D. 12

Q15 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 45% and 44% on any number of toys bought.

(B) Successive discounts of 36%, 41% and 45% on any number of toys bought.

(C) 49% discount on the first 4 toys and 19% discount on each toy thereon.

(D) 7 toys free of cost on buying 10 toys.

A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

A. B

B. C

C. A

D. D

Q16 Quant

Three numbers are in the ratio 11 : 3 : 2, and their LCM is 2706. Their HCF is:

A. 82

B. 30

C. 50

D. 41

Q17 Quant

Meena and her mother visit a shop. The shopkeeper tells them that the price of 5 identical dresses is ₹4,955. Meena buys 9 such dresses. Find the total cost of the 9 dresses.

A. ₹8,991

B. ₹8,919

C. ₹8,099

D. ₹8,199

Q18 Quant

Arpit buys 3 bed sheets for ₹3,951. He sells the first at a profit of ₹300, the second at a loss of ₹50, and the third at a profit of ₹200. What is the overall profit or loss percentage? (Round off your result to two decimal places)

A. 10.93% profit

B. 11.39% loss

C. 11.39% profit

D. 10.93% loss

Q19 Quant

A bus covers 150 km at 60 km/hr, 120 km at 80 km/hr, and 180 km at 90 km/hr without any stops. What is the average speed of the bus for the entire journey?

- A. 72 km/hr
- B. 85 km/hr
- C. 70 km/hr
- D. 75 km/hr

**Q21 Quant**

The sum of the digits of a two digit number is 11. If 27 is added to the number its digits are reversed. Find the ratio between the original number to the number obtained on reversing the digits.

- A. 23:29
- B. 13:17
- C. 36:59
- D. 47:74

**Q20 Quant**

The price of sugar is increased by 3%. How much percent the consumption of sugar must be reduced so as not to increase the expenditure on sugar? (correct your answer to one decimal place)

- A. 2.9%
- B. 1.9%
- C. 2.6%
- D. 1.7%

**Q22 Quant**

Two trains are moving in opposite directions at speeds of 36 km/h and 54 km/h. If their lengths are 100 m and 150 m, respectively, how much time will they take to cross each other completely?

- A. 12 seconds
- B. 10 seconds
- C. 15 seconds
- D. 8 seconds

**Q23 Quant**

A person sold an article at a loss of 10%. Had he sold it for ₹60 more, he would have gained 5%. Find the cost price of the article.

- A. ₹480
- B. ₹400
- C. ₹420
- D. ₹440

**Q24 Quant**

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 24$ cm, $BC = 62$ cm, $DC = 92$ cm, and $AD = 95$ cm, then what is the length (in cm) of EF?

- A. 29
- B. 36
- C. 39
- D. 34

**Q25 Quant**

If $\cos x - \sin x = a$ and $\cos x + \sin x = b$, then the value of $\frac{1 - \tan^2 x}{1 + \tan^2 x}$ is 362

Co

- A. $-ab$
- B. ab
- C. $a^2 + b^2$
- D. $a^2 - b^2$



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Q26 Quant

Find the value of $\left(\frac{1}{0.01}\right) \times \left\{ \left[\left(\frac{5}{8}\right) + (0.25) \right] \times \left(\frac{4}{5}\right) \right\}$.

A. 0.7

B. 70

C. 0.8

D. 80

Q27 Quant

₹9,520 is divided among X, Y, and Z in the ratio $\frac{1}{2} : \frac{1}{4} : \frac{5}{16}$. What is the share of Y?

A. ₹4,000

B. ₹2,600

C. ₹2,240

D. ₹3,200

Q28 Quant

Two inlet pipes A and B can fill a cistern in 15 hours and 20 hours respectively. An outlet pipe C can empty the cistern in 30 hours. All three pipes are opened together, but the outlet pipe is closed after 5 hours. The total time (in hours) required to fill the cistern completely is

A. $9\frac{2}{3}$ B. 10

C. 9

D. $9\frac{1}{3}$ 

Q29 QuantFind the value of m which satisfies

$$\left(\frac{14}{5}\right)^{11} \times \left(\frac{5}{14}\right)^{17} \times \left(\frac{14}{5}\right)^{14} = \left(\frac{5}{14}\right)^{3m+7}$$

A.

B.

C.

D. **Q30 Quant**The simplified value of the expression $0.5^2 \times 5^5 \times 2^{-4} \times 4^4 \times 10^{-3} \div a$ is 1, then the value of a is _____.A. 12.5

B. 6.25

C. 25

D. 50

Quant

Q1 Quant

A and B can do a piece of work in 12 days and 30 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 17

B. 15

C. 16

D. 18

Q2 Quant

A spherical tank has a diameter of 28 cm. What is the total surface area of the tank? (Use $\pi = 22/7$)

A. 2460 cm²B. 2458 cm²C. 2464 cm² D. 2456 cm²

Q3 Quant

Evaluate $23^3 + (-19)^3 + (-4)^3$

A. 5089

B. 5244

C. 4998

D. 4958

Q4 Quant

If 40% of a number exceeds 25% of it by 42, then the number is: 5704

A. 300

B. 320

C. 260

D. 280

Q5 Quant

A trader marks his goods such that even after allowing a discount of 25%, he makes a profit of 10%. If he gives only 10% discount, then find the profit percentage.

A. 30%

B. 35%

C. 32%

D. 28%

Q6 Quant

Eduardo, Abraham and Xavier can finish a certain piece of work in 6, 34 and 36 days, respectively. All three of them started the work together. Eduardo left the work after 2 days and Abraham left just 3 days before the work was completed. Find the total number of days taken for the work to be completed.

A. 15.2

B. 11.7

C. 14.6

D. 13.2

Q7 Quant

Patna Express leaves Delhi at 10:00 AM and reaches Patna at 7:00 PM the same day. Delhi Express leaves Patna at 2:00 PM and reaches Delhi at 1:00 AM on the next day. Both trains travel on the same route in opposite directions. At what time do they meet?

A. 04:45PM

B. 04:15PM

C. 04:30PM

D. 03:45PM

Q8 Quant

What is the mode of the following data?

43, 40, 41, 53, 50, 41, 44, 45, 43, 46, 48, 46, 51, 55, 52, 42, 46, 45

A. 46

B. 41

C. 43

D. 40

Q9 Quant

The difference between the measure of an interior angle and an exterior angle of a regular polygon is 100°. What is the number of sides of the polygon?

A. 9

B. 10

C. 12

D. 8

Q10 Quant

The cost of five tables and seven chairs is ₹7040. If a table costs ₹400 more than a chair, find the cost of a table.

A. ₹820



B. ₹700

C. ₹800

D. ₹420

Q11 Quant

The largest four-digit number which when divided by 11, 7 and 14 leaves the remainder 2 in each case, is:

A. 9972

B. 9901

C. 9858



D. 9435

Q12 Quant

What smallest positive number should be subtracted from 3 and 5 so that 8 is the third proportional to them?

A. -2

B. 2

C. -1

D. 1

**Q13 Quant**

An article is sold at a profit of 21%. If the cost price is increased by ₹50 and the selling price is reduced by ₹69, then the profit would be 13.6%. What is the original cost price (in ₹) of the article?

A. 1,500

B. 1,400

C. 1,700



D. 2,000

Q14 Quant

Find the smallest number which when divided by 9, 12 and 15 leaves a remainder 3 in each case.

A. 123

B. 363

C. 183



D. 723

Q15 Quant

The median of the given distribution is 28.5. Find the missing frequency x.

Class	0-10	10-20	20-30	30-40	40-50	50-60	Frequency
	5	x	20	15	7	5	

A. 5

B. 3

C. 8



D. 10

Q16 Quant

A company has two departments, 'A' and 'B', with employees in the ratio 5:7, respectively. If 28 employees are transferred from department 'B' to 'A', the ratio becomes 1:1. How many employees does each department have originally?

A. 140 in A, 84 in B

B. 140 in A, 196 in B



C. 150 in A, 84 in B

D. 140 in A, 96 in B

Q17 Quant

A retailer has fixed the price of an article at 20% above the cost price. If he offers a discount of ₹2 for a purchase of ₹30, what is his gain or loss percentage?

A. 16% gain

B. 14% gain

C. 11% loss

D. 12% gain

**Q18 Quant**

The marked price of a cooker is the same at four shops I, II, III and IV. Shop I allows two successive discounts of 87% and 37%, shop II allows successive discounts of 81% and 37%, shop III allows successive discounts of 57% and 54% and shop IV allows successive discounts of 91%, 25%, and 59% on the marked price of the cooker. Which shop is selling the cooker at the lowest price?

A. II

B. IV



C. III

D. I

Q19 Quant

Which formula correctly calculates simple interest when the principal, rate, and time are known?

A. Simple Interest = Principal \times Rate / Time

B. Simple Interest = (Principal \times Rate \times Time) / 100

C. Simple Interest = Principal + Rate + Time

D. Simple Interest = Principal \times Time / Rate

Q23 Quant

A and B invest ₹12,000 and ₹8,000, respectively, in a business. If the total profit is ₹10,000, what is A's share of profit?

A. ₹6,000

B. ₹5,000

C. ₹7,000

D. ₹4,000

Q20 Quant

Ramu is 8 years older than Keeran. Seven years ago, Ramu's age was three times Keeran's age. Find the present age of Ramu.

A. 19 years

B. 16 years

C. 25 years

D. 23 years

Q24 Quant

Venu invested a certain sum of money at 10% per annum. After 2 years, he received ₹136.50 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

A. 120

B. 115

C. 130

D. 125

Q21 Quant

By selling lemons at 5 for a rupee, a man loses 34%. To gain 10% how many must he sell for a rupee?

A. 2

B. 3

C. 4

D. 5

Q25 Quant

A man walks 6 km at a speed of 6 km/h and then runs 18 km at a speed of 9 km/h. What is his average speed (in km/h) for the entire distance?

A. 9

B. 10

C. 8

D. 7

Q22 Quant

A water pipe is in the shape of a hollow cylinder with an outer radius of 10 cm and an inner radius of 8 cm. If the length of the pipe is 2 m, what is the total surface area (including both ends and the inner and outer curved surfaces) of the pipe in square centimeters? (Use $\pi = 22/7$ and rounded off to the nearest integer)

A. 25124 cm²

B. 22848 cm²

C. 18848 cm²

D. 22855 cm²

Q26 Quant

The simplified value of the expression $0.5 \times 0.125 \div 8^{-2}$ is ____.

A. 8

B. 4

C. 1

D. 2

Q27 Quant

If $4^x - 4^{x-1} = 48$, then the value of $\frac{2x-1}{2x+3}$ is:

A. $\frac{5}{8}$

B. $\frac{5}{11}$

C. $\frac{5}{9}$

D. $\frac{5}{4}$

Q28 Quant

A recipe requires 0.75 cups of sugar and $1\frac{1}{4}$ cups of flour. What is the total amount (in cups) of ingredients used, expressed as a decimal?

A. 2.05

B. 2.5

C. 2.0

D. 1.95



Q29 Quant

Given that $\tan \theta = 2$ and θ is in the first quadrant, what is the value of $\sec \theta$?

A. $\sqrt{5}$

B. $\sqrt{3}$

C. 2

D. $\sqrt{2}$

Q30 Quant

Find the value of $\sqrt{\frac{(169)^2 \times (2.56)^2 \times (0.25)^2}{(13)^4 \times (1.6)^4 \times (0.5)^2}}$.

A. 0.05

B. 1.05

C. 1.5

D. 0.5

Quant

Q1 Quant

In a class, there are 10 boys more than girls. Each girl has 3 pencils and each boy has 2 pencils with them. The total number of pencils in the class is 170. The ratio of girls to boys in the class is ____.

A. 2:3

B. 3:4

C. 4:5

D. 5:6

Q2 Quant

A and B can do a piece of work in 12 days and 15 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 5

B. 6

C. 7

D. 8

Q3 Quant

Which of the following numbers is divisible by 11?

A. 3522

B. 4735

C. 2145

D. 5281

Q4 Quant

A student scores an average of 72 marks in 5 subjects and 84 marks in 3 additional subjects. The overall average marks is

A. 76.5

B. 76.25

C. 75.25

D. 75.5

Q5 Quant

A train passes two persons walking in the same direction in which the train is going. These persons are walking at the rates of 2 km/hr and 4 km/hr, respectively, and are completely crossed by the train in 9 seconds and 10 seconds, respectively. What is the length of the train?

A. 55 meters

B. 45 meters

C. 75 meters

D. 50 meters

Q6 Quant

The sum of two positive numbers is 67 and their product is 1012. The positive difference between them is:

A. 21

B. 30

C. 13

D. 24

Q7 Quant

The marked price of a refrigerator is ₹4,884. The shopkeeper allows a discount of 10% and gains 8%. If no discount is allowed, his gain percentage would be:

A. 20%

B. 40%

C. 30%

D. 10%

Q8 Quant

The LCM of the numbers 5, 3.2 and 0.03 is:

A. 215

B. 120

C. 240

D. 185



Q9 Quant

The following ratios are given:

$$a : b = 2 : 3$$

$$b : c = 4 : 5$$

$$c : d = 3 : 2$$

$$d : e = 5 : 4$$

What is the value of the ratio $a : e$?

A. 3 : 5

B. 1 : 1

C. 4 : 7

D. 3 : 4

Q10 Quant

What is the mode of the following data?

40, 47, 54, 45, 50, 43, 53, 52, 53, 49, 40, 50, 42, 52, 44, 52, 47, 55

A. 52

B. 40

C. 54

D. 47

Q11 Quant

If the income tax is increased by 18%, the net income is reduced by 2%. Find the original rate of income tax.

A. 8%

B. 5%

C. 10%

D. 12%

Q12 Quant

What sum (in ₹) will earn a simple interest of ₹1,440 in 3 years at 8% per year rate of interest?

A. 345.6

B. 12,000

C. 3,000

D. 6,000

Q13 Quant

The sum of the present ages of a father and his son is 50 years. Five years ago, the father's age was three times the son's age. By how many years is the father older than his son?

A. 20

B. 19

C. 18

D. 21

Q14 Quant

If p is the third proportional to 6 and 18, and q is the third proportional to p and 54, find the value of q .

A. 36

B. 54

C. 18

D. 72

Q15 Quant

A tech firm's revenue decreased from ₹2,50,000 to ₹2,12,500. What is the percentage decrease in the revenue?

A. 15%

B. 10%

C. 12%

D. 20%

Q16 Quant

The difference in simple interest on a sum of money invested at 4% per annum for five years and for three years is ₹784. Find the simple interest (in ₹) on the same sum invested at the same rate of interest for eight years.

A. 3920

B. 3136

C. 2352

D. 4144

Q17 Quant

An article is sold at a profit of 58%. If the cost price is increased by ₹20 and the selling price is reduced by ₹74, then the profit would be 52.5%. What is the original cost price (in ₹) of the article?

A. 2,100

B. 2,000

C. 2,200

D. 1,900

Q18 Quant

A marker costs ₹43. A store offers "Buy 5, Get 2 Free". What is the effective price per marker? [Give your answer in ₹, correct to two places after decimal.]

A. ₹32.71

B. ₹31.71

C. ₹33.71

D. ₹30.71



Q19 Quant

A, B, and C can complete a work in 10, 12, and 15 days, respectively. A and B work together for 3 days, after which A withdraws. B and C then work together. Find the number of days required by B and C to complete the remaining work.

- A. 6 days
- B. 4 days
- C. 5 days
- D. 3 days

Q20 Quant

What is the greatest length of a measuring rod that can exactly measure three fabric pieces of lengths 7 m 35 cm, 9 m 45 cm, and 10 m 50 cm?

- A. 1 m 5 cm
- B. 1 m 35 cm
- C. 1 m 25 cm
- D. 1 m 15 cm

Q21 Quant

If a trader purchases 50 notebooks for ₹1000 and sells all at a gain of 20%, what is the selling price of each notebook?

- A. ₹22
- B. ₹20
- C. ₹18
- D. ₹24

Q22 Quant

A scooter travels 40 km at 20 km/hr and returns 60 km at the same speed. What is the average speed?

- A. 22 km/hr
- B. 24 km/hr
- C. 25 km/hr
- D. 20 km/hr

Q23 Quant

Simplify: $\left\{ \frac{20}{33} \div \frac{20}{7} \right\} \div \left(\frac{3}{5} \times \frac{10}{9} + \frac{2}{11} \right) + \frac{7}{4} \div \frac{28}{23}$ of $\frac{23}{4}$

- A. A. $\frac{19}{29}$
- B. B. $\frac{6}{19}$
- C. C. $\frac{1}{2}$
- D. D. $\frac{23}{31}$

Q24 Quant

Simplify: $9^2 + \sqrt{4^2} - 7\sqrt{16} - 7$

- A. 45
- B. 50
- C. 58
- D. 57

Q25 Quant

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 60$ cm, $BC = 65$ cm, $DC = 18$ cm, and $AD = 10$ cm, then what is the length (in cm) of EF?

A. 25

B. 23

C. 21

D. 22

Q26 Quant

The fourth proportional to the first number, the second number, and 20 is 36. If the sum of the first two numbers is 14, find the geometric mean of the first two numbers.

A. $2\sqrt{5}$ B. $3\sqrt{5}$ C. $5\sqrt{3}$ D. $5\sqrt{2}$ **Q27 Quant**

Let both a and b be prime numbers such that $(a^2 + b)$ is also a prime number less than 20. What is the number of possible values of b?

A. 3

B. 5

C. 4

D. 6

Q28 Quant

A solid metallic sphere is melted and recast into a cone whose radius is equal to the radius of the sphere. If the height of the cone is 84 cm, what was the volume of the original sphere?

$\left(\text{Use } \pi = \frac{22}{7}\right)$

A. 16808 cm^3 B. 27808 cm^3 C. 38808 cm^3 D. 49808 cm^3

Q29 Quant

A hollow spherical shell is made of a metal of density 39 g/cm^3 . Its internal and external radii are 12 cm and 13 cm, respectively. What is the weight (in kg) of the shell?

$$\left(\text{Use } \pi = \frac{22}{7} \text{ and Density} = \frac{\text{Mass}}{\text{Volume}} \right)$$

A. 77.7

B. 76.648

C. 77.9

D. 73.648

Q30 Quant

The angles of depression of two ships from the top of a light house are 45° and 30° towards east. If the ships are 50 m apart, the height of the light house is

A. $25(\sqrt{3} + 1) \text{ m}$ B. $\frac{50}{\sqrt{3} + 1} \text{ m}$ C. $\frac{25}{\sqrt{3} + 1} \text{ m}$ D. $50(\sqrt{3} + 1) \text{ m}$

Quant

Q1 Quant

Two positive numbers differ by 20. The mean proportional between these two numbers is 24. What is the sum of these two numbers?

A. 53

B. 51

C. 52

D. 50

Q2 Quant

A sum, when invested at 20% simple interest per annum, amounts to ₹5,280 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 years?

A. 2,640

B. 1,320

C. 5,280

D. 660

Q3 Quant

If the average of three numbers is 7, what is their total sum?

A. 10

B. 7

C. 14

D. 21

Q4 Quant

A number leaves a remainder of 2 when divided by 5 and a remainder of 3 when divided by 7. What is the smallest positive integer that satisfies both conditions?

A. 23

B. 38

C. 24

D. 17

Q5 Quant

A man was seven times older than his son five years ago and is now four times older. What is the son's present age?

A. 14 years

B. 7 years

C. 5 years

D. 10 years

Q6 Quant

Find the third proportional to 8 and 16.

A. 24

B. 30

C. 28

D. 32

Q7 Quant

A borrower takes a loan of ₹1,860 at a simple interest rate of 12% per annum. After some years, the total amount payable becomes ₹2,529.60. For how many years was the loan taken?

A. 4

B. 2

C. 3

D. 1

Q8 Quant

In a school, Class A has 24 students with an average height of 160 cm, and Class B has 20 students with an average height of 168 cm. The average height of students in Class C is 165 cm. If the overall average height of all students from Classes A, B and C is 164 cm, find the number of students in Class C.

A. 26

B. 18

C. 20

D. 16

Q9 Quant

The LCM of the numbers 5, 8.3 and 0.19 is:

A. 7160

B. 6925

C. 7125

D. 7885 

Q10 Quant

Two trains of lengths 160 meters and 140 meters are moving in opposite directions at 55 km/h and 65 km/h, respectively. Find the time taken by them to cross each other completely.

A. 6 seconds

B. 8 seconds

C. 9 seconds

D. 10 seconds

Q11 Quant

During a sale, 50% of the goods are sold at 36% profit, 40% of the remaining goods are sold at 14% profit and the still remaining goods are sold at a loss of 21%. If there is an overall profit of $x\%$, then what is the value of x ?

A. 15.2

B. 16.9

C. 14.5

D. 13.6

Q12 Quant

A company hires a certain number of temporary workers for a project. If each worker is paid ₹500 per day, the total daily wage bill exceeds the company's budget by ₹4,000. If instead each worker is paid ₹450 per day, the total daily wage bill falls short of the budget by ₹2,000. Find the number of workers hired.

A. 160

B. 280

C. 200

D. 120

Q13 Quant

Kavita's monthly salary increased by 25%, and then decreased by 20%. If her initial salary is ₹58,000, what was her final salary?

A. ₹58,000

B. ₹64,000

C. ₹55,000

D. ₹60,000

Q14 Quant

A and B can do a piece of work in 12 days and 30 days, respectively. Both work for 2 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 23

B. 24

C. 25

D. 22

Q15 Quant

P sells an item to Q at 25% profit. Q sells the same item to R at 60% loss. If R paid ₹5,166 for the item, then at what price (in ₹) is the item purchased by P?

A. 10,333

B. 10,331

C. 10,330

D. 10,332

Q16 Quant

From the top of a building $100\sqrt{3}$ meters high, the angle of depression to a bicycle on the ground is 30° . What is the horizontal distance (in meters) from the building to the bicycle?

A. 150

B. 300

C. 250

D. 200

Q17 Quant

Raghav drives from City A to City B in three equal segments of 40 km each. He drives the first segment at 40 km/hr, the second at 60 km/hr, and the third at 120 km/hr. What is his average speed for the whole trip?

A. 64 km/hr

B. 60 km/hr

C. 50 km/hr

D. 68 km/hr

Q18 Quant

A shopkeeper fixes the marked price of an item 120% above its cost price. What percentage of discount on marked price should be allowed to gain 43%?

A. 38%

B. 33%

C. 32%

D. 35%

Q19 Quant

What is the largest 6-digit number that is completely divisible by 96?

- A. 999936
- B. 999888
- C. 999984
- D. 999912

Q20 Quant

The sum of two positive numbers is 27 and their product is 176. The positive difference between them is:

- A. 21
- B. 24
- C. 10
- D. 5

Q21 Quant

A wholesaler offers a trade discount of 30% on the marked price of an electric kettle to retailers. A retailer then announces a scheme discount of 12% on the price after receiving the trade discount. If the retailer sells the kettle to a customer for ₹2,464, what is the marked price of the kettle?

- A. ₹4,000
- B. ₹3,800
- C. ₹4,200
- D. ₹4,400

Q22 Quant

The price of fuel decreases by 45%, 25% and 15% in three successive months, but increases by 45% in the fourth month. What is the percentage decrease in the price of fuel in the fourth month as compared to its original price? (Round off to 2 decimal places.)

- A. 53.54%
- B. 49.16%
- C. 47.82%
- D. 46.44%

Q23 Quant

A, B and C start a business. A invests ₹1,21,500 for 12 months, B invests ₹1,02,060 for 9 months and C invests ₹97,200, but withdrew ₹24,500 after 6 months. If the total profit earned at the end of the year is ₹1,69,797, find the difference between the profit share of A and the profit share of B.

- A. ₹26,973
- B. ₹26,884
- C. ₹26,524
- D. ₹26,763

Q24 Quant

The total surface area of a cube having side 94 cm is:

- A. 53,006 cm²
- B. 53,016 cm²
- C. 52,989 cm²
- D. 53,026 cm²

Q25 Quant

Workers P and Q can complete a task in 16 days if working together. P alone takes 24 days. If P and Q start the task together, but Q leaves after 4 days, how many more days will P alone take to finish the work?

- A. 6 days
- B. 18 days
- C. 10 days
- D. 9 days



Q26 Quant

A solid cuboid of dimensions $30 \text{ cm} \times 20 \text{ cm} \times 8 \text{ cm}$ is melted. During melting, 10% of the material is lost. The remaining metal is recast into identical cubes of side 4 cm. How many complete cubes are formed?

A. A. 63

B. B. 60

C. C. 67



D. D. 66

Q27 Quant

Simplify the following expression:

$$\sqrt{\frac{0.6859 \times 0.1156 \times 0.64000}{0.289 \times 0.1600 \times 0.54872}} \quad (\text{Correct your answer up to three decimal places})$$

A. 1.414



B. 2.414

C. 2.314

D. 1.314

Q28 Quant

Evaluate $\sqrt{36} + \sqrt{\frac{324}{81}} + \sqrt{\frac{9.5 \times 0.0085 \times 18.9}{0.021 \times 0.0017 \times 1.9}}$.

A. 156

B. 154

C. 152

D. 158



Q29 Quant

What should come in place of the question mark (?) in the following equation?

$$(32 \div 0.8 \times ?) - 72 = 6! \div (4 \times 5 + 10)$$

A. 1.4

B. 2.8

C. 2.2

D. 2.4

**Q30 Quant**

Two complementary angles are such that twice the measure of one angle is equal to three times the measure of the other. The measure of the larger angle is:

A. A. 45°

B. B. 54°

C. C. 72°

D. D. 60°



Quant

Q1 Quant

15 men and 19 women can complete a piece of work in 8 days, and 9 men and 4 women can complete the same work in 14 days. The work of how many women is equivalent to that of one man?

A. 18

B. 15

C. 16

D. 17

Q5 Quant

The sides of a triangle are 75 cm, 21 cm, and 72 cm. What is the length (in cm) of its altitude corresponding to the side with a length of 21 cm?

A. 72

B. 65

C. 90

D. 107

Q2 Quant

Three numbers are in the ratio of 19 : 7 : 13, and their LCM is 8645. Their HCF is:

A. 30

B. 15

C. 25

D. 5

Q6 Quant

The average age of 7 students in a class is 17 years. When a new student joins the class, the average age of the class becomes 18 years. Find the age of the new student.

A. 25 years

B. 20 years

C. 23 years

D. 26 years

Q3 Quant

A car travels the first 60 km at 45 km/hr and the next 90 km at 60 km/hr. What is the average speed for the entire journey? (Round off your answer to two decimal places.)

A. 54.56 km/hr

B. 53.84 km/hr

C. 52.94 km/hr

D. 50.78 km/hr

Q7 Quant

If the sum of the ages of a father and son is 56 years and the father is 24 years older than his son, what is the son's age (in years)?

A. 32

B. 16

C. 24

D. 20

Q4 Quant

Two numbers differ by 8. If five times the smaller number is subtracted from twice the larger number, the result is 13. What is the larger number?

A. 10

B. 8

C. 9

D. 12

Q8 Quant

If 45% of a number exceeds 20% of it by 36, then the number is:

A. 144

B. 164

C. 184

D. 124



Q9 Quant

A military camp has provisions for 360 soldiers for 50 days. After 10 days, 120 more soldiers arrive at the camp. Assuming the daily consumption per soldier remains constant, for how many more days will the remaining provisions last?

- A. 25 days
- B. 30 days ✓
- C. 32 days
- D. 28 days

Q10 Quant

A shopkeeper buys sugar at ₹48 per kg. While selling, he uses a faulty weighing scale that gives only 960 g instead of 1 kg. In addition, he marks the selling price at a profit of 20% on the cost price and then offers a discount of 10% on the marked price. Find the overall percentage profit or loss made by the shopkeeper.

- A. 10% profit
- B. 11.4% profit
- C. 12.5% profit ✓
- D. 4.5% loss

Q11 Quant

If the interest on a sum of ₹y at 2% per annum compounded annually for 2 years is ₹404, then the total amount payable at the end of the two-year period will be _____.

- A. ₹10,404 ✓
- B. ₹10,704
- C. ₹10,504
- D. ₹10,604

Q12 Quant

The sum of two positive numbers is 36 and their product is 180. The positive difference between them is:

- A. 34
- B. 24 ✓
- C. 37
- D. 32

Q13 Quant

Two trains are running on parallel tracks in the same direction. Train A is 90 m long and moves at 54 km/h. Train B is 75 m long and moves at 36 km/h. How much time will Train A take to completely overtake Train B?

- A. 22 seconds
- B. 25 seconds
- C. 33 seconds ✓
- D. 30 seconds

Q14 Quant

Find the smallest natural number x , for which $2x + 1$ is not a prime number.

- A. 4 ✓
- B. 5
- C. 3
- D. 2

Q15 Quant

What is the smallest 5-digit number that is exactly divisible by 12, 15 and 20?

- A. 10080
- B. 10320
- C. 10200
- D. 10020 ✓

Q16 Quant

Two taps can fill a cistern in 4 hours and 9 hours, respectively. A third tap can empty it in 9 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

- A. 3
- B. 2
- C. 4
- D. 1 ✓

Q17 Quant

A grocery store gives a Buy 5, Get 2 Free offer. The price of each item is ₹300. A customer needs a total of 21 items and procures the items under this scheme. What is the effective cost per item? (Round off your answer to two decimal places.)

- A. ₹114.29
- B. ₹241.29
- C. ₹214.45
- D. ₹214.29 ✓

Q18 Quant

A recipe uses 2 cups of rice for every 3 cups of water. If you want to cook using 6 cups of rice, how much water will you need?

A. 3 cups

B. 6 cups

C. 7 cups

D. 9 cups

**Q19 Quant**

A, B and C started a business, investing amounts of ₹1,960, ₹1,660, and ₹1,130 respectively. If B's share in the profit earned by them is ₹968, what is the difference in the profit (in ₹) earned by A and C?

A. ₹487

B. ₹482

C. ₹486

D. ₹484

**Q20 Quant**

What is the mean proportional between 0.0009 and 0.25?

A. 0.015



B. 0.016

C. 0.16

D. 0.15

Q21 Quant

Chetan's salary is ₹17,000 per month. He spends ₹4,000 on house rent, ₹2,500 on bills, and the rest of the amount is his monthly savings. Find his savings (in ₹) in a year, if in the month of his birthday, he spent his complete monthly savings for a birthday celebration.

A. 1,15,500



B. 1,26,000

C. 94,500

D. 1,05,000

Q22 Quant

What will be the total amount payable after 3 years on a principal of ₹4,000 at 5% per annum, compounded annually?

A. ₹4,630.50



B. ₹4,050.50

C. ₹4,550.50

D. ₹4,600.50

Q23 Quant

A trader buys 20 kg of rice for ₹1,000. He sells the rice at the rate of ₹60 per kg. What is the percentage profit made by the trader?

A. 15%

B. 18%

C. 20%



D. 22%



Q24 Quant

Find the volume of a cylinder whose height is 21 cm and its radius is $\frac{3}{5}$ of the radius of another cylinder with a volume of 317900 cm^3 and a height of 14 cm. (Use $\pi = 22/7$)

A. 171660 cm³B. 171656 cm³C. 161666 cm³D. 171666 cm³ ✓

Q25 Quant

Simplify

$$\sqrt{\sqrt{\sqrt{256} + \sqrt{144} + (2\sqrt{2})^2 + \sqrt{841} \times (\sqrt{2})^2}}$$

A. A. $(4\sqrt{2})^2$ B. B. $(2\sqrt{2})^2$ ✓C. C. $(\sqrt{2})^2$ D. D. $(3\sqrt{2})^2$

Q26 Quant

Simplify: $\frac{\sin^2 A}{1 - \cos A} + \frac{\sin^2 A}{1 + \cos A}$

A. 2 ✓

B. 4

C. 1

D. 3

Q27 Quant

A hollow spherical shell is made of a metal of density 10 g/cm^3 . Its internal and external radius are 1 cm and 4 cm, respectively. What is the weight (in kg) of the shell?

(Use $\pi = \frac{22}{7}$ and $\text{Density} = \frac{\text{Mass}}{\text{Volume}}$)

A. 1.92

B. 1.98

C. 2.64 ✓

D. 2.24



Q28 Quant

What is the simplified value of the following expression?

$$\{(3^3 + 5^2) \times 2^3 - 4^3\} \div (7 - 3)$$

A. 95

B. 44

C. 88

D. 84

Q29 Quant

If on a sale, there is 40% discount on the marked price of ₹1,200, but the sale is done at ₹520 only, then how much additional discount did the customer get?

A. $27\frac{7}{9}\%$

B. $26\frac{7}{9}\%$

C. $25\frac{7}{9}\%$

D. $28\frac{7}{9}\%$

Q30 Quant

A student's marks were incorrectly entered as 37 instead of 22. Due to this,

the average marks of the class got increased by $\frac{5}{4}$.

What is the number of students in the class?

A. 4

B. 12

C. 21

D. 11

Quant

Q1 Quant

The average of five numbers is 24. If four of the numbers are 18, 20, 25 and 27, what is the fifth number?

A. 28

B. 35

C. 30

D. 32

Q2 Quant

A shopkeeper sells an article to A at a profit of 20%. A sells it to B at a profit of 25%. If B pays ₹3,000, what is the cost price of the article for the shopkeeper?

A. ₹2,200

B. ₹2,000

C. ₹2,100

D. ₹2,080

Q3 Quant

The HCF and LCM of two numbers are 15 and 225, respectively. Which of the following pairs can be the numbers?

A. 15 and 75

B. 25 and 135

C. 45 and 75

D. 25 and 65

Q4 Quant

Which of the following numbers is divisible by 11?

A. 869756

B. 978626

C. 112044

D. 447255

Q5 Quant

Three friends, Amit, Bala, and Chetan, have savings in the ratio 5:7:9. If Bala's savings exceed Amit's by ₹3,600, what are Chetan's total savings?

A. ₹16,800

B. ₹16,600

C. ₹16,200

D. ₹16,400

Q6 Quant

The sum of two positive numbers is 44 and their product is 228. The positive difference between them is:

A. 37

B. 36

C. 32

D. 33

Q7 Quant

A shopkeeper claims to sell rice at **cost price**, but uses a false weight and gains **25%**.

For **1 kg**, how much rice does he actually give?

A. 800 gm

B. 900 gm

C. 750 gm

D. 850 gm

Q8 Quant

What is the ratio between the third proportional of 36 and 48 to the third proportional of 49 and 64?

A. 49:64

B. 16:25

C. 3:5

D. 38:41

Q9 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 27% and 39% on any number of toys bought.

(B) Successive discounts of 39%, 7% and 40% on any number of toys bought.

(C) 26% discount on the first 9 toys and 13% discount on each toy thereon.

(D) 7 toys free of cost on buying 9 toys.

A customer wants to buy 9 toys. Which of the above schemes is the least beneficial to her?

A. A

B. D

C. C

D. B

Q10 Quant

What sum (in ₹) will earn a simple interest of ₹1,320 in 3 years at 16% per year rate of interest?

A. 1,375

B. 2,750

C. 633.6

D. 5,500

Q11 Quant

If the difference between the ages of a mother and her daughter is 24 years, and the sum of their ages is 52 years, how old (in years) is the mother?

A. 38

B. 40

C. 28

D. 36

Q12 Quant

The present ages of A and B are in the ratio 4:5. If after 8 years from now, A will be 32 years old, what is B's present age?

A. 32 years

B. 34 years

C. 30 years

D. 28 years

Q13 Quant

If ₹5,000 is invested at 8% per annum compounded annually, what will be the compound interest earned after 2 years?

A. ₹840

B. ₹816

C. ₹832

D. ₹800

Q14 Quant

A shopkeeper buys two types of notebooks. The cost of 3 notebooks of the first type and 5 notebooks of the second type together is ₹420. The cost of one notebook of the second type is ₹20 more than the cost of one notebook of the first type. What is the cost of one notebook of the first type?

A. ₹40

B. ₹45

C. ₹42

D. ₹48

Q15 Quant

Two trains P and Q, measure 200 m and 300 m in length, respectively. The faster train, coming from behind, takes 48 seconds to overtake the slower when moving in the same direction. When they approach each other from opposite directions, they cross each other completely in 20 seconds. Determine the speed of the faster train.

A. 63.75 km/h

B. 61.75 km/h

C. 60.75 km/h

D. 62.75 km/h

Q16 Quant

The arithmetic mean of 3, 7, 11, ..., 51 is _____.

A. 27

B. 35

C. 23

D. 31

Q17 Quant

An item is sold after giving successive discounts of 10% and 20%. What is the net percentage reduction in its price?

A. 34%

B. 32%

C. 28%

D. 30%

Q18 Quant

A company's revenue increases by 20% in the first year, decreases by 10% in the second year, and increases by 15% in the third year. What is the overall percentage change in revenue over the three years?

A. 25.2% increase

B. 23.2% increase

C. 24.2% increase

D. 26.2% increase

Q19 Quant

A shopkeeper marks a washing machine at ₹24,000. During a festival, he offers a 20% discount and sells it for an additional ₹800 less. What is the final selling price of the washing machine?

A. ₹17,600

B. ₹18,400

C. ₹18,800

D. ₹19,200

Q20 Quant

The LCM of the numbers 7, 12.4 and 1 is:8521

A. 440

B. 434

C. 442

D. 441

Q21 Quant

In a parallelogram, one angle is 70° . What are the measures of the other three angles?

A. $70^\circ, 110^\circ, 110^\circ$

B. $70^\circ, 90^\circ, 110^\circ$

C. $70^\circ, 70^\circ, 70^\circ$

D. $110^\circ, 110^\circ, 110^\circ$

Q22 Quant

Two taps can fill a cistern in 4 hours and 13 hours, respectively. A third tap can empty it in 13 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 2

B. 1

C. 3

D. 4

Q23 Quant

A person travels three-fifths of the total distance from home to office by train, one-fourth by car, and the remaining 300 metres on foot. What is the total distance (in kilometres) from home to office?

A. 5

B. 3

C. 4

D. 2

Q24 Quant

A cistern is filled by two taps, C and D, in 54 minutes and 81 minutes, respectively. There is also a drain E at the bottom. If all three are opened simultaneously, the cistern is filled in 108 minutes. In how many minutes can drain E alone empty the cistern? (up to two decimal places)

A. 49.24

B. 46.29

C. 45.64

D. 42.06

Q25 Quant

If $1.2x = 0.5y$, find the value of $\frac{x+y}{x-y}$.

A. $\frac{12}{5}$

B. $-\frac{21}{4}$

C. $\frac{14}{3}$

D. $-\frac{17}{7}$ ✓

Q26 Quant

A hollow cylinder of thickness 1 unit and length 14 units is made with 396 cubic units of metal. Its inner volume is ____ cubic units. (Take

$$\pi = \frac{22}{7}$$

A. 636

B. 730

C. 704 ✓

D. 676

Q27 Quant

A cylindrical tank of radius 20 cm contains water up to a height of 10 cm. If 30 solid spheres, each of radius 7 cm, are completely immersed in the water, then the rise in the water level (in cm) is (Use $\pi = 3.14$)

A. 34.3 cm ✓

B. 32.4 cm

C. 36.5 cm

D. 28.7 cm

Q28 Quant

A vertical communication tower stands on a building 30 meters high. From a point 70 meters from the building, the angles of elevation to the top and bottom of the tower are 30° and 60° , respectively. What is the height of the tower (in m)?

A. $70\sqrt{3} - 30$ ✓

B. $70\sqrt{3} + 30$

C. $\frac{70\sqrt{3}}{2} + 30$

D. $30\sqrt{3}$

Q29 Quant

If $2^{(x+1)} \times 4^{(y-2)} = 32$ and $x = 3y$, what is the value of y ?

A. 1

B. 1.6



C. 1.4

D. 1.5

Q30 Quant

If $6^x - 6^{x-1} = 30$, then the value of $\frac{2x-1}{2x+3}$ is:

A. $\frac{3}{4}$

B. $\frac{3}{11}$

C. $\frac{3}{7}$



D. $\frac{3}{9}$



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Quant

Q1 Quant

Ritu gets a discount of 40% on an oven whose marked price is ₹1000. Since she pays by credit card, she gets an additional 22% discount. How much does she pay (in ₹)?

A. 468 B. 467 C. 469 D. 465

Q2 Quant

The price of a jacket is first increased by 20% and then decreased by 25%. If the original price was ₹600, what is the final price of the jacket?

A. ₹540 B. ₹480 C. ₹600 D. ₹570

Q3 Quant

How many sides does a regular polygon have if each interior angle measures 150° ?

A. 10 sides B. 12 sides C. 15 sides D. 8 sides

Q4 Quant

The arithmetic mean of 10 observations is 42. Three of the observations are 30, 38, and 50. The remaining six observations have an average of 45. Find the missing observation.

A. 32 B. 31 C. 34 D. 33

Q5 Quant

Evaluate $24^3 + (-5)^3 + (-19)^3$

A. 6783 B. 6763 C. 6840 D. 6572

Q6 Quant

Two taps can fill a cistern in 4 hours and 12 hours, respectively. A third tap can empty it in 12 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 2 B. 4 C. 3 D. 1

Q7 Quant

If $a:b = 12:13$ and $b:c = 4:5$, what is $a:c$?

A. 12:5 B. 4:13 C. 48:65 D. 4:5

Q8 Quant

Simplify $\sqrt{1624 + \sqrt{3225 + \sqrt{419 + 157}}}$.

A. 41 B. 45 C. 47 D. 43

Q9 Quant

Find the mean proportional between $(x + y)^2$ and $(x - y)^2$, (x and y are natural number and $x > y$).

A. $xy + y^2$ B. $xy + x^2$ C. $x^2 - y^2$ D. $x^2 + y^2$

Q10 Quant

The largest four-digit number which when divided by 12, 13 and 7 leaves remainder 3 in each case is:

A. 9831



B. 9618

C. 9438

D. 9934

Q11 Quant

A shopkeeper buys two types of rice costing ₹32 per kg and ₹40 per kg. He buys a total of 45 kg of rice for ₹1600. The ratio of the quantity (in kg) of rice costing ₹32 per kg to that costing ₹40 per kg is

A. 5:4



B. 3:2

C. 4:5

D. 2:3

Q12 Quant

The marked price of a sweater is ₹600. The wholesaler offers a 20% discount to a retailer for up to 20 sweaters and a 25% discount if the order exceeds 20 sweaters. Find the amount paid by the retailer if he orders 22 such sweaters.

A. ₹9,900



B. ₹9,250

C. ₹9,500

D. ₹9,850

Q13 Quant

A shopkeeper purchases rice at ₹60 per kg. While selling, he uses a weighing scale that shows 1 kg when only 900 g is actually weighed. He marks the price 20% above the cost price. Later, he gives a 10% discount on the marked price but continues using the same faulty scale. Find his profit (in ₹) on each transaction where the buyer pays for 1 kg.

A. ₹9.80

B. ₹10.80



C. ₹10.20

D. ₹9.20

Q14 Quant

A sum of ₹8,000 is borrowed at a simple interest rate of 5% per annum for 3 years. What is the simple interest payable?

A. ₹1,200



B. ₹1,000

C. ₹1,400

D. ₹1,600

Q15 Quant

The angle of elevation of the top of a building from a point 40 m away is 45° . What is the height of the building?

A. 40 m



B. 30 m

C. 20 m

D. 36 m

Q16 Quant

Mary is 3 years older than her sister. If their combined age is 27 years, what is Mary's age (in years)?

A. 12

B. 15



C. 14

D. 13

Q17 Quant

A cyclist travels 40 meters in 8 seconds. What is his speed?

A. 21 km/hr

B. 24 km/hr

C. 18 km/hr



D. 16 km/hr



Q18 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

- (A) Successive discounts of 50% and 16% on any number of toys bought.
(B) Successive discounts of 49%, 8% and 13% on any number of toys bought.
(C) 35% discount on the first 6 toys and 45% discount on each toy thereon.
(D) On buying eight items, the customer is billed for only four items. A customer wants to buy 8 toys. Which of the above schemes is the least beneficial to her?

- A. C** ✓
B. B
C. D
D. A

Q19 Quant

A company has 10 officers and 30 clerks. The average monthly salary of an officer is ₹45,000 and that of a clerk is ₹25,000. What is the average salary of the entire staff?

- A. ₹30,000** ✓
B. ₹28,000
C. ₹35,000
D. ₹32,000

Q20 Quant

A total of money is split among E, F, G and H in the ratio 9:7:5:3. If G gets ₹4000 less than F, how much does E receive?

- A. ₹16000
B. ₹18000 ✓
C. ₹20000
D. ₹17000

Q21 Quant

The HCF and LCM of two positive integers are 36 and 7,560, respectively. If one of the numbers is 540, what is the other number?

- A. 468
B. 432
C. 504 ✓
D. 396

Q22 Quant

A sum of ₹20,000 amounts to ₹21,218 in 2 years under compound interest, compounded annually. Find the rate of interest per annum.

- A. 4%
B. 3% ✓
C. 8%
D. 5%

Q23 Quant

A smart city metro line had an average of 4,500 daily riders last month. This month, it averaged 4,860 riders per day. What is the percentage growth in ridership?

- A. 8%** ✓
B. 10.2%
C. 4.5%
D. 6.4%

Q24 Quant

The diagonals of a rhombus are 19 cm and 29 cm. Find its area.

- A. 255.5 cm²
B. 275.5 cm² ✓
C. 285.5 cm²
D. 265.5 cm²

Q25 Quant

If $\sqrt{x} = 5$, what is the value of $\sqrt{x + 25}$?

A. $5\sqrt{2}$

B. $5\sqrt{3}$

C. $3\sqrt{5}$

D. $2\sqrt{5}$

Q26 Quant

A swimming pool is fitted with three pipes. The first two pipes working simultaneously, fill the pool in the same time as the third pipe alone. The second pipe alone fills the pool 5 hours faster than the first pipe and 4 hours slower than the third pipe. In what time will the second and third pipes together fill the pool?

A. $7\frac{1}{2}$ hours

B. 4 hours

C. 6 hours

D. $3\frac{3}{4}$ hours

Q27 Quant

A closed cylindrical reservoir features a radius of 14 cm and a height of 10 cm. If 20% of the total surface area of this reservoir is coated in blue paint and the remaining surface is coated in red, determine the total area in square centimeters that is painted red. [Use $\pi = 22/7$]

A. 1689.6 cm^2

B. 424.4 cm^2

C. 422.4 cm^2

D. 1687.6 cm^2

Q28 Quant

A car travels from City A to City B at a speed of 60 km/h. After reaching City B, the driver increases the speed by 20 km/h for the return journey. Due to road repairs on the way back, the car is forced to slow down for 30 minutes, during which it travels at only 30 km/h instead of the increased speed. If the total time for the round trip is 7 hours, find the distance between City A and City B.

A. $219\frac{2}{7}$ km

B. $229\frac{2}{7}$ km

C. $229\frac{2}{5}$ km

D. $227\frac{2}{5}$ km

Q29 Quant

The value of the expression $0.125 \times 4^4 \times 2^{-5} \times 0.25^2 \times 8^2$ is ____.

A. 16

B. 4

C. 8

D. 2



Q30 Quant

Find the value of $\left\{ 3.46 + 3\frac{1}{4} - 5\frac{1}{8} + 4.25 + 0.165 \right\}$.

A. 6

B. 6.8

C. 7

D. 7.4



Quant

Q1 Quant

A cyclist travels from point A to B and back from B to A along the same route. On the onward journey, he covers one-third of the distance at 12 km/hr and the remaining distance at 18 km/hr. On the return journey, he covers half of the distance at 9 km/hr and the remaining distance at 18 km/hr. Find the average speed (in km/hr) for the entire round trip.

- A. 15 km/hr
- B. 13.5 km/hr ✓
- C. 11.5 km/hr
- D. 9 km/hr

Q2 Quant

Girish scored 448 marks in an examination and was 81 marks short of 46% of maximum marks. In the same examination, his friend scored 805 marks. What is the percentage of marks scored by his friend?

- A. 71%
- B. 72%
- C. 67%
- D. 70% ✓

Q3 Quant

Evaluate $23^3 + (-15)^3 + (-8)^3$

- A. 8050
- B. 8133
- C. 8280 ✓
- D. 8059

Q4 Quant

What is the compound interest on ₹3,000 for 2 years at 20% per annum, interest compounded annually?

- A. ₹1,300
- B. ₹1,320 ✓
- C. ₹1,200
- D. ₹1,440

Q5 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

- (A) Successive discounts of 5% and 21% on any number of toys bought.
- (B) Successive discounts of 38%, 33% and 21% on any number of toys bought.
- (C) 8% discount on the first 6 toys and 27% discount on each toy thereon.
- (D) 3 toys free of cost on buying 7 toys.

A customer wants to buy 7 toys. Which of the above schemes is the least beneficial to her?

- A. B
- B. A
- C. C ✓
- D. D

Q6 Quant

A school drum beats every 12 minutes, and the school bell rings every 18 minutes. If both sounded together at 9:00 AM, how many times will they sound together again before 11:00 AM?

- A. 5
- B. 4
- C. 6
- D. 3 ✓

Q7 Quant

Which of the following numbers is divisible by 7?

- A. 24019
- B. 23452
- C. 24017 ✓
- D. 21234

Q8 Quant

A cylindrical water tank has a radius of 7 cm and a height of 10 cm. What is its volume? (Use $\pi = 22/7$)

- A. 2200 cm³
- B. 1540 cm³ ✓
- C. 700 cm³
- D. 440 cm³

Q9 Quant

Two trains of lengths 120 m and 180 m are moving in the same direction at speeds of 60 km/h and 40 km/h, respectively. Find the time taken by the trains to cross each other.

- A. 54 seconds ✓
- B. 59.3 seconds
- C. 67.9 seconds
- D. 76.9 seconds

Q10 Quant

₹2,288 is divided among Pankaj, Meera, and Ashok in such a way that if ₹39, ₹47, and ₹40 are deducted from their respective shares, they have money in the ratio 17:15:14. Find Meera's share after deduction.

- A. ₹805
- B. ₹705 ✓
- C. ₹605
- D. ₹855

Q11 Quant

A prize of ₹8,400 is to be shared between A and B in the ratio 3:5. Find B's share.

- A. ₹5,150
- B. ₹5,000
- C. ₹5,200
- D. ₹5,250 ✓

Q12 Quant

A wholesaler offers two options for a sofa set marked at ₹80,000: either a flat discount of 30% or two successive discounts of 20% and 12%. What is the difference in the selling price between the two options?

- A. ₹320 ✓
- B. ₹240
- C. ₹400
- D. ₹480

Q13 Quant

If one angle of an isosceles triangle is 110° , what are the measures of the other angles of the triangle?

- A. 25° and 35°
- B. 25° and 25°
- C. 25° and 45°
- D. 35° and 35° ✓

Q14 Quant

The sum of the digits of a two-digit number is 11. If the digits are reversed, the new number is 27 more than the original number. What is the original number?

- A. 65
- B. 47 ✓
- C. 56
- D. 38

Q15 Quant

A sum of money becomes ₹7,865 after 2 years and ₹8,651.50 after 3 years on compound interest at the same rate, compounded annually. Find the sum.

- A. ₹6,800
- B. ₹7,200
- C. ₹6,500 ✓
- D. ₹7,000

Q16 Quant

A person sells two items: one at a profit of 20% and another at a loss of 10%. If both items cost ₹100 each, what is the overall gain or loss percentage?

- A. 5% gain ✓
- B. 5% loss
- C. 10% loss
- D. 10% gain

Q17 Quant

The largest four-digit number which when divided by 14, 15 and 8 leaves remainder 4 in each case is:

- A. 9196
- B. 9686
- C. 9199
- D. 9244 ✓

Q18 Quant

If 2, x, and 18 are in continued proportion, find the positive value of x.

- A. 6 ✓
- B. 9
- C. 12
- D. 4

Q19 Quant

The average of 6.5, 10.8, 20 and a is 15. The value of a is:5089

A. 21.7

B. 24.7

C. 22.7

D. 23.7

Q20 Quant

A and B can do a piece of work in 12 days and 12 days, respectively. Both work for 3 days and then A leaves. How long (in days) will B take to complete the remaining work?

A. 6

B. 5

C. 8

D. 7

Q21 Quant

The following data shows the number of minutes taken by 15 students to complete a mathematics test: 42, 38, 55, 47, 50, 44, 60, 39, 48, 52, 45, 41, 49, 46, 53. Find the median time taken by the students.

A. 47 minutes

B. 47.5 minutes

C. 48 minutes

D. 46 minutes

Q22 Quant

A town had a population of 5,000 at the beginning of a year. During the first year, the population decreased by 10%. In the following year, the population increased by 20%. What was the population of the town at the end of two years?

A. 5400

B. 5800

C. 5500

D. 5200

Q23 Quant

The present age of a father is thrice that of his son. After 15 years, the age of the father will be twice that of his son. What is the present age (in years) of the father?

A. 45

B. 52

C. 42

D. 48

Q24 Quant

During a sale, 50% of the goods are sold at 12% profit, 40% of the remaining goods are sold at 16% profit and the still remaining goods are sold at a loss of 19%. If there is an overall profit of x%, then what is the value of x?

A. 2.5

B. 5.5

C. 3.5

D. 4.5

Q25 Quant

A spherical tank has a radius of 2 meters. If the tank is filled with water to 80% of its total volume, what is the volume of water in the tank (rounded to the nearest cubic meter)?

A. 33

B. 21

C. 27

D. 38

Q26 Quant

Simplify: $\frac{1.2}{0.3} - \frac{2}{5}$

A. 3.4

B. 3.6

C. 4

D. 3.2



Q27 Quant

Find the value of $\left(3 + \frac{4}{3} \text{ of } 2\frac{1}{4} \div 2\frac{2}{5} - 2\frac{1}{4} \text{ of } 3\frac{1}{5}\right)$.

A. 1.48

B. 2.95

C. -1.48

D. -2.95



Q28 Quant

10 men and 15 women can complete a project in 12 days. If after 8 days, only $\frac{2}{3}$ of the work is completed, how many more women must be added to finish the work in the next 2 days, assuming all men continue?

A. 20

B. 30

C. 35

D. 25



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Q29 Quant

Two poles of heights 10 m and 30 m stand vertically on level ground at a distance d apart. From a point on the ground between them, along the line joining their feet, the angles of elevation to their tops of the taller and the shorter poles are 60° and 30° , respectively. The distance d between the poles is:

A. $30\sqrt{3}$ meters

B. $20\sqrt{3}$ meters

C. $10\sqrt{3}$ meters

D. $25\sqrt{3}$ meters

Q30 Quant

The simplified value of $\frac{\left(\frac{12}{24}\right)}{\left(\frac{12}{6}\right)} \div \left(\frac{2}{9} \times \frac{18}{6} + \frac{4}{8}\right) + \frac{6}{9} \div \frac{28}{11}$ of $\frac{11}{9}$ is

A.

B.

C.

D.

Quant

Q1 Quant

The present ages of two persons, X and Y, are in the ratio 4 : 5. Five years from now, the difference between X's age and Y's age will be 3 years. Find the sum of their present ages (in years).

- A. 27
- B. 24
- C. 26
- D. 25

Q2 Quant

The sides of a triangle are 51 cm, 35 cm, and 26 cm. What is the length (in cm) of its altitude corresponding to the side with a length of 35 cm?

- A. 60
- B. 53
- C. 40
- D. 24

Q3 Quant

A jacket with a marked price of ₹2,000 is sold for ₹1,530 after two successive discounts. If the first discount is 15%, what is the second discount percentage?

- A. 5%
- B. 8%
- C. 12%
- D. 10%

Q4 Quant

The lengths of two rods are 4 cm and 6 cm. A third rod is made such that the three rods are in continued proportion. What will be the length of the third rod?

- A. 12 cm
- B. 9 cm
- C. 8 cm
- D. 10 cm

Q5 Quant

The number of hours spent per day by 10 students watching educational videos during a week are as follows: 2, 3, 4, 2, 5, 3, 2, 4, 2, 3. Find the mode.

- A. 3 hours
- B. 5 hours
- C. 2 hours
- D. 4 hours

Q6 Quant

At a health club, 42% of the members are women and 58% of the members are men. If the average age of the men is 57 years and the average age of the women is 42 years, what is the average age (in years) of all the members?

- A. 57.6
- B. 50.7
- C. 56.7
- D. 44.9

Q7 Quant

A shopkeeper buys sugar at ₹25 per kg. He marks it at ₹32 per kg and allows a 20% discount on the marked price. While selling, he uses an 800 g weight instead of 1 kg. There is no other loss or expense. What is the overall profit or loss percentage of the shopkeeper?

- A. 30% profit
- B. 30% loss
- C. 28% profit
- D. 28% Loss

Q8 Quant

What is the smallest number that must be added to 4583 so that the resulting number is divisible by 9?

- A. 5
- B. 1
- C. 7
- D. 3

Q9 Quant

An amount of ₹6,900 is obtained after 3 years at simple interest at the rate of 5% interest per annum. What is the principal invested?

A. ₹5,800

B. ₹5,600

C. ₹6,000

D. ₹6,400

Q10 Quant

A solid cylinder of radius 6 cm and height 14 cm is melted and recast into a hollow cylinder of half the height of the original cylinder. If the outer radius of the hollow cylinder is twice its inner radius, find the outer radius (in cm) of the hollow cylinder.

A. $4\sqrt{6}$

B. $8\sqrt{3}$

C. 8

D. $6\sqrt{6}$

Q11 Quant

Evaluate $20^3 + (-16)^3 + (-4)^3$

A. 3661

B. 3868

C. 3840

D. 3630

Q12 Quant

Subrata invested a certain amount of money at 10% per annum. After 2 years, he received ₹220.5 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

A. 205

B. 195

C. 210

D. 200

Q13 Quant

If the ratio of the number of boys to girls in a class is 5:7 and the ratio of girls to teachers is 14:1, what is the ratio of boys to teachers?

A. 7:2

B. 10:1

C. 7:1

D. 5:2

Q14 Quant

Three numbers are in the ratio 10 : 13 : 11, and their LCM is 2860. Their HCF is:

A. 9

B. 4

C. 2

D. 3

Q15 Quant

Article M is sold at a reduction of ₹3,000 from its original price, and Article N is sold at a reduction of ₹2,500 from its original price. If the original prices of both articles were ₹10,000, reduction in price of M is R1% and reduction in price of N is R2%, find the difference between R1 and R2.

A. 10

B. 5

C. 15

D. 20

Q16 Quant

Inlet M fills a tank in 24 minutes and Inlet N fills it in 32 minutes. Outlet O drains the tank. When all three operate simultaneously, the tank fills in 32 minutes. How long does O take to drain a full tank alone?

A. 14 minutes

B. 44 minutes

C. 34 minutes

D. 24 minutes

Q17 Quant

Nisha noted the number 76488 in her register. What is the remainder when it is divided by 8?

A. 2

B. 0

C. 1

D. 3

Q18 Quant

Two trains of equal lengths cross a stationary pole in 12 seconds and 16 seconds, respectively. How long will it take for the trains to cross each other when running in opposite directions? (Write your answer rounded off to two decimal places.)

- A. 14.53 seconds
- B. 15.43 seconds
- C. 12.61 seconds
- D. 13.71 seconds

Q19 Quant

Mike, Connor and Floyd can finish a certain piece of work in 8, 22 and 33 days, respectively. All three of them started the work together. Mike left the work after 4 days and Connor left just 2 days before the work was completed. Find the total number of days taken for the work to be completed.

- A. 7.8
- B. 18.9
- C. 3.8
- D. 7.1

Q20 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 38% and 39% on any number of toys bought.

(B) Successive discounts of 42%, 38% and 20% on any number of toys bought.

(C) 11% discount on the first 2 toys and 42% discount on each toy thereon.

(D) 9 toys free of cost on buying 10 toys.

A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

- A. A
- B. B
- C. D
- D. C

Q21 Quant

A trader sells an article at a profit of 16%. If he had sold it for ₹80 more, his profit would have been 48%. Find the number of articles sold, given that the total cost price is ₹8,000.

- A. 38
- B. 35
- C. 25
- D. 32

Q22 Quant

The ratio between the speeds of two trains is 5:8. If the second train covers 300 km in 3 hours, then find the speed of the first train.

- A. 62.5 km/h
- B. 65.2 km/h
- C. 63.8 km/h
- D. 72.5 km/h

Q23 Quant

Three ropes of lengths 54 m, 72 m and 90 m are to be cut into smaller pieces of equal lengths such that no rope is left over. What is the maximum possible length of each smaller piece?

- A. 12 m
- B. 24 m
- C. 18 m
- D. 36 m

Q24 Quant

If twice the smaller of two numbers is added to three times the larger number, the result is 55. If the larger is increased by 5, it becomes twice the smaller. What is the larger number?

- A. 10.75
- B. 12.75
- C. 10.5
- D. 12.5

Q25 Quant

Simplify: $(\sqrt{5} + \sqrt{20})^2$

A. 50

B. 25

C. 65

D. 45



Q26 Quant

Find the third proportional to $(a^2 - b^2)$ and $(a + b)$, given that $a \neq b$.

A. $\frac{(a + b)}{(a - b)}$



B. $\frac{(a + b)^2}{(a - b)}$

C. $\frac{(a - b)}{(a + b)}$

D. $\frac{(a - b)^2}{(a + b)}$

Q27 Quant

A person spends 70% of his income. If his income increases by 20% and his expenditure increases by 25%, then find the percentage change in his savings.

A. $6\frac{1}{4}\%$ decrease

B. $7\frac{1}{4}\%$ increase

C. $8\frac{1}{3}\%$ increase



D. $8\frac{1}{3}\%$ decrease

Q28 Quant

A delivery drone is hovering at a fixed point in the air. From two points on the ground in a straight line on opposite sides of the drone, the angles of elevation of the drone are 30° and 60° . If the horizontal distance between the two points is 94 m, find the vertical height at which the drone is hovering. (Take $\sqrt{3} = 1.73$)

A. 40.752 m

B. 42.562 m

C. 41.652 m

D. 40.655 m



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Q29 Quant

Simplify: $\frac{\left(\frac{10}{18}\right)}{\left(\frac{10}{9}\right)} \div \left(\frac{4}{9} \times \frac{18}{12} + \frac{5}{6}\right) + \frac{9}{9} \div \frac{27}{15}$ of $\frac{15}{9}$

A.

B.

C.

D.

Q30 Quant

The diagonals of a rhombus are in the ratio 5 : 12 and its area is 240 cm². Find the lengths (in cm) of the diagonals.

A. A. $10\sqrt{2}$ and $24\sqrt{2}$

B. B. $5\sqrt{2}$ and $12\sqrt{2}$

C. C. 5 and 12

D. D. 10 and 24



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Quant

Q1 Quant

A person covers a certain distance. If he reduces his speed by 25%, by what percentage does the time taken to cover the same distance increase? (Rounded off to two decimal places)

A. 20.33%

B. 33.33%

C. 25.67%

D. 30.67%

Q2 Quant

A local library purchased several biography books and mystery novels for their new collection. The library spent exactly ₹4,800 on biography books and ₹4,800 on mystery novels. Each biography book costs ₹40 more than a mystery novel. The library was able to buy 10 more mystery novels than biography books. Find the number of biography books purchased.

A. 30

B. 18

C. 24

D. 21

Q3 Quant

A. 4

B. 2.5

C. 1.5

D. 1

Q4 Quant

The value of $\{18 + [24 \div (3 \text{ of } 2)] \times 4\} - 10$ is equal to:

A. 24

B. 40

C. 72

D. 28

Q5 Quant

If a trapezium has bases of lengths 8 cm and 12 cm, and height of 5 cm, what is its area?

A. 40 cm²B. 50 cm² C. 60 cm²D. 45 cm²

Q6 Quant

A trader buys an article, spends ₹50 on its repair, and sells it for ₹600, making a 25% profit. What was the original purchase price?

A. ₹480

B. ₹430

C. ₹400

D. ₹450

Q7 Quant

The diagonals of a rhombus are in the ratio 3 : 4. If the length of each side of the rhombus is 12.5 units, what is the length of the shorter diagonal?

A. 18 units

B. 12 units

C. 10 units

D. 15 units

Q8 Quant

A sum of ₹12,000 is invested at 10% per annum, compound interest, compounded half-yearly. What is the amount after 1.5 years?

A. ₹13,965.75

B. ₹14,000

C. ₹13,891.50

D. ₹14,200

Q9 Quant

The present age of Mohit is three times the present age of his son Rahul. After 12 years from now, Mohit's age will be twice Rahul's age. What is the sum of their present ages (in years)?

A. 48



B. 46

C. 44

D. 50

Q14 Quant

A two-digit number is such that four times the sum of its digits is equal to the number formed by reversing its digits. If the difference between the digits is 3, find the original number.

A. 96

B. 69

C. 63



D. 36

Q10 Quant

In a class, the ratio of students who passed to those who failed is 11:2. If 44 students failed, what is the total number of students in the class?

A. 284

B. 280

C. 286



D. 282

Q15 Quant

A car travels 120 km at 40 km/h, 180 km at 60 km/h, and 100 km at 50 km/h. What is the average speed of the car for the entire journey?

A. 48 km/h

B. 50 km/h



C. 45 km/h

D. 55 km/h

Q11 Quant

If the ratio of two numbers is 3 : 8, and their HCF is 6, then their LCM is:8618

A. 148

B. 144



C. 189

D. 155

Q16 Quant

A trader buys 20 kg of rice for ₹1,000 and sells it at ₹55 per kg. What is the profit percentage?

A. 12%

B. 15%

C. 8%

D. 10%

**Q12 Quant**

An investment triples in 6 years under compound interest. After how many years will it become 27 times?

A. 15 years

B. 21 years

C. 18 years



D. 24 years

Q17 Quant

If a car travels 120 km using 8 liters of petrol, how much petrol will be required to travel 225 km?

A. 18 liters

B. 15 liters



C. 17 liters

D. 16 liters

Q13 Quant

What is the mode of the following data: 12, 15, 18, 18, 20, 18, 22, 22, 25, 28, 22, 15, 18, 12?

A. 22

B. 12

C. 18



D. 15

Q18 Quant

In a batch of 50 managers and supervisors, the average monthly salary of managers is ₹48,000 and that of supervisors is ₹42,000. If the overall monthly average salary of the batch is ₹44,400, find the number of supervisors in the batch.

A. 30



B. 33

C. 24

D. 27

Q19 Quant

The marked price of a machine is ₹16,000. The shopkeeper gives two successive discounts of 15% and N% to the customer. If the customer paid ₹12,240 for the machine, the value of N is:

- A. 10%
- B. 15%
- C. 12.5%
- D. 13.5%

Q23 Quant

A and B can do a piece of work in 12 days and 28 days, respectively. Both work for 3 days and then A leaves. How long (in days) will B take to complete the remaining work?

- A. 20
- B. 18
- C. 19
- D. 17

Q20 Quant

The ratio of the heights of Shyam and Manish is 7 : 8. If Shyam's height is 140 cm, who is taller and by how much?

- A. Manish is taller by 20 cm
- B. Manish is taller by 10 cm
- C. Shyam is taller by 10 cm
- D. Shyam is taller by 20 cm

Q24 Quant

The price of a trouser is first increased by 20% and then decreased by 25%. What is the net percentage change in the price?

- A. 10% decrease
- B. 5% increase
- C. 10% increase
- D. 5% decrease

Q21 Quant

If the third proportional to 0.8 and 5.6 is n, then what is the value of n?

- A. 31.36
- B. 39.2
- C. 0.84
- D. 4.48

Q25 Quant

The sum of two positive numbers is 31 and their product is 220. The positive difference between them is:

- A. 25
- B. 9
- C. 13
- D. 26

Q22 Quant

A mobile phone is marked at ₹8,000. If two successive discounts of 15% and 10% are given, what is the selling price?

- A. ₹6,200
- B. ₹6,160
- C. ₹6,180
- D. ₹6,120



Q26 Quant

The sides of a triangle are in the ratio 5:6:7 and its perimeter is 90 cm. What is the area of this triangle (in square cm)?

A. $150\sqrt{7} \text{ cm}^2$

B. $140\sqrt{6} \text{ cm}^2$

C. $150\sqrt{3} \text{ cm}^2$

D. $150\sqrt{6} \text{ cm}^2$ ✓

Q27 Quant

Three friends, Amit, Bharat, and Chitra, can individually complete a painting project in 12 hours, 18 hours, and 24 hours, respectively. If they all work together for 4 hours and then Amit leaves, how many hours will Bharat and Chitra take to finish the remaining work?

A. $2\frac{6}{7}$ hours ✓

B. $2\frac{5}{7}$ hours

C. $3\frac{6}{7}$ hours

D. $3\frac{5}{7}$ hours

Q28 Quant

Simplify $\left[\frac{8.16}{2.4} + (3.64 \times 1.5) \right]$ to two decimal places.

A. 9.26

B. 8.86 ✓

C. 8.56

D. 8.76



Q29 Quant

Two successive price increases of 15% and 15% on an article are equivalent to a single percentage increase of:

A. A. **30%**

B. B. **31%**

C. C. **31.5%**

D. D. **32.25%** ✓

Q30 Quant

Simplify: $\left(\frac{19}{18} \div \frac{19}{6}\right) \div \left(\frac{5}{18} \times \frac{16}{15} + \frac{4}{6}\right) + \frac{6}{8} \div \frac{24}{25}$ of $\frac{25}{8}$

A. A. **1**

B. B. $\frac{3}{4}$

C. C. $\frac{31}{52}$ ✓

D. D. $\frac{31}{54}$

Quant

Q1 Quant

A four-digit number $3P2Q$ is divisible by both 2 and 3. Find the smallest value of $P + Q$.

A. 2

B. 7

C. 4

D. 1

Q2 Quant

A man bought an article and sold it at a profit of 15%. If he had bought it at 25% less cost price and sold it for ₹294 less than the original selling price, he would have made a profit of 30%. Find the cost price of the article.

A. ₹1,680

B. ₹1,590

C. ₹1,630

D. ₹1,540

Q3 Quant

The sum of two positive numbers is 32 and their product is 220. The positive difference between them is:

A. 12

B. 17

C. 16

D. 11

Q4 Quant

An article is marked at ₹3,000. The shopkeeper offers successive discounts of 10% and 20%. What is the final selling price of the article?

A. ₹2,160

B. ₹2,100

C. ₹2,200

D. ₹2,250

Q5 Quant

Find the mode for the following distribution.

CL 40-45 45-50 50-55 55-60 60-65 65-70 70-75 75-80 Frequency 4 4
13 5 6 5 2 1

A. 51.34

B. 54.60

C. 48.57

D. 52.65

Q6 Quant

A person standing on level ground looks up at the top of a vertical tower. The angle of elevation formed at the observer's eye is 60° . If the tower is 18 m high, determine the horizontal distance (in meters) between the person and the base of the tower.

A. $5\sqrt{3}$ B. $4\sqrt{3}$ C. $7\sqrt{3}$ D. $6\sqrt{3}$

Q7 Quant

A specialized printing machine can print 2400 pages in 1 hour and 20 minutes. At this steady rate, how many pages can the machine print in 45 minutes?

A. 1350

B. 1450

C. 1250

D. 1500

Q8 Quant

Two banks, A and B, offered loans at 3.5% and 6.5% per annum, respectively. Ashish borrowed an amount of ₹3,40,000 from each bank. Find the positive difference between the amounts of simple interest (in ₹) paid to the two banks by Ashish after 2 years.

A. 20,400

B. 21,900

C. 21,400

D. 19,900

Q9 Quant

Pipes A and B can fill a tank in 12 hours and 15 hours, respectively. A third pipe C can empty the full tank in 20 hours. If A and B are opened together for 2 hours and then C is also opened, what is the total time taken to fill the tank?

- A. 10 hours
- B. 9.5 hours
- C. 9 hours
- D. 8 hours

Q10 Quant

A car travels 560 km in 9.5 hours, partly at 40 km/h and partly at 160 km/h. Find the distance travelled at 160 km/h.

- A. 240 km
- B. 216 km
- C. 230 km
- D. 260 km

Q11 Quant

The price of an article is increased by 20%. In the next step, it is decreased by $x\%$ of the new price. Finally, the price is increased by 10% of the original price. If the final price becomes exactly equal to the original price, the value of x is:

- A. 25
- B. 12.25
- C. 22.75
- D. 17.5

Q12 Quant

The cost of 5 chairs and 3 tables is ₹12,500, while the cost of 3 chairs and 5 tables is ₹15,500. Find the cost of 2 chairs and 2 tables.

- A. ₹7,000
- B. ₹7,500
- C. ₹6,500
- D. ₹6,000

Q13 Quant

Three numbers are in the ratio $9 : 7 : 5$, and their LCM is 2205. Their HCF is:8625

- A. 34
- B. 24
- C. 7
- D. 29

Q14 Quant

A bus travels 90 km at 45 km/h, 120 km at 60 km/h, and 150 km at 75 km/h. What is the average speed of the bus for the entire journey?

- A. 60 km/h
- B. 66 km/h
- C. 70 km/h
- D. 55 km/h

Q15 Quant

Arun sold an article for ₹1,786.40 and incurred a loss of 12%. At what price should he sell the article to earn a profit of 14%?

- A. ₹2,268.70
- B. ₹2,485.70
- C. ₹2,314.20
- D. ₹2,112.20

Q16 Quant

Two taps can fill a cistern in 4 hours and 8 hours, respectively. A third tap can empty it in 8 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

- A. 2
- B. 1
- C. 4
- D. 3

Q17 Quant

The combined present age of P and Q is 46 years. 2 years ago from now, P was twice as old as Q. What is the present age of P?

- A. 30 years
- B. 28 years
- C. 16 years
- D. 20 years



Q18 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

(A) Successive discounts of 24% and 33% on any number of toys bought.

(B) Successive discounts of 39%, 37% and 23% on any number of toys bought.

(C) 24% discount on the first 2 toys and 12% discount on each toy thereon.

(D) 2 toys free of cost on buying 5 toys.

A customer wants to buy 5 toys. Which of the above schemes is the least beneficial to her?

A. B

B. D

C. C

D. A

Q19 Quant

The sides of two square gardens are 16 m and 25 m, respectively. A third square garden is to be constructed such that the length of its side is the mean proportional between the sides of the given two gardens. What will be the length of the side of the new square garden?

A. 19 m

B. 18 m

C. 21 m

D. 20 m

Q20 Quant

What sum (in ₹) will earn a simple interest of ₹1,440 in 2 years at 16% per year rate of interest?

A. 4,500

B. 460.8

C. 2,250

D. 9,000

Q21 Quant

Three positive numbers are in proportion such that the ratio of the first number to the second number is the same as the ratio of the second number to the third number. If the first number is 16 and the second number is 24, find the value of the third number.

A. 48

B. 32

C. 64

D. 36

Q22 Quant

If the mean of the following data is 40, find the missing frequency. x 10 20 30 40 50 60 frequency 2 3 1 4 f 4

A. 1

B. 4

C. 7

D. 5

Q23 Quant

The price of an article is first increased by 20% and then decreased by 20%. If the original price of the article is ₹500, what is the net percentage change in the price?

A. 2% increase

B. 4% decrease

C. 5% decrease

D. No change

Q24 Quant

If the mean proportional between x and 36 is 12, find x .

A. 7

B. 6

C. 5

D. 4

Q25 Quant

Find the sum of the surface areas of three spheres of radii 2 cm, 3 cm and 6 cm.

(Take $\pi = \frac{22}{7}$)

A. 616 cm²

B. 620 cm²

C. 608 cm²

D. 612 cm²

Q26 Quant

Simplify: $\frac{\left(\frac{16}{21}\right)}{\left(\frac{16}{4}\right)} \div \left(\frac{4}{5} \times \frac{10}{12} + \frac{4}{7}\right) + \frac{4}{8} \div \frac{26}{14}$ of $\frac{14}{8}$

A. A. $\frac{1}{15}$

B. B. $\frac{2}{5}$

C. C. $\frac{7}{23}$

D. D. $\frac{4}{13}$

Q27 Quant

Sixteen identical solid cubes, each of side 2 cm, are melted and recast into a cuboid whose length is twice its breadth and height equals its breadth. Find the volume of the cuboid.

A. A. 100 cm³

B. B. 64 cm³

C. C. 96 cm³

D. D. 128 cm³

Q28 Quant

Simplify: $55\frac{1}{8} + 55\frac{3}{8} + 55\frac{5}{8} + 55\frac{7}{8}$

A. 220

B. 222

C. 224

D. 226

Q29 Quant

The value of $\left(2 + \frac{3}{2}\right)^2 - \left[4 - \left(\frac{6}{3}\right)^2\right] \div \frac{1}{2}$ is

A. $\frac{7}{2}$

B. $\frac{49}{4}$

C. $\frac{7}{4}$

D. $\frac{49}{2}$

Q30 Quant

In quadrilateral PQRS, $\angle P = 2\angle Q$, $\angle Q = \frac{\angle R}{4}$, $\angle R = 2\angle S$. Find the value of $\angle S$.

A. 60°

B. 80°

C. 85°

D. 45°

Quant

Q1 Quant

The mean proportional of 0.15 and 0.000135 is _____.

- A. 0.000045
 B. 0.0045 ✓
 C. 0.00045
 D. 0.045

Q2 Quant

Rohit walks at a speed of 6 km/hr. How much time will he take to cover 12 km?

- A. 1.5 hours
 B. 1 hour
 C. 2.5 hours
 D. 2 hours ✓

Q3 Quant

An article is marked for ₹2,000. A 25% discount is offered on the marked price, followed by a second discount of 10% on the new price. What is the final selling price of the article?

- A. ₹1,520
 B. ₹1,720
 C. ₹1,450
 D. ₹1,350 ✓

Q4 Quant

If the ratio of two numbers is 4 : 1, and their HCF is 47, then their LCM is:

- A. 188 ✓
 B. 376
 C. 406
 D. 412

Q5 Quant

If the simple interest on a sum of ₹9,800 is ₹16,562 for a period of 13 years, find the rate of interest per annum.

- A. 15%
 B. 9%
 C. 13% ✓
 D. 11%

Q6 Quant

Rajiv invested a certain sum of money at 10% per annum. After 2 years, he received ₹199.5 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

- A. 200
 B. 190 ✓
 C. 185
 D. 205

Q7 Quant

A train met with an accident 50 km away from station A. It completed the remaining journey at three-fourth of its original speed and reached station B 35 minutes late. Had the accident occurred 24 km further down the line, it would have been only 25 minutes late. What is the original speed of the train?

- A. 45 km/hr
 B. 60 km/hr
 C. 48 km/hr ✓
 D. 40 km/hr

Q8 Quant

Evaluate $23^3 + (-11)^3 + (-12)^3$

- A. 9108 ✓
 B. 9144
 C. 9070
 D. 8863

Q9 Quant

Harish bought an article for ₹347 and sold it to Renu at a loss of 6%. With this amount, Harish bought another article and sold it at a gain of 65%. What is Harish's overall gain percentage?

- A. 51.8%
 B. 53.1%
 C. 50.9%
 D. 55.1% ✓

Q10 Quant

Two taps can fill a cistern in 4 hours and 15 hours, respectively. A third tap can empty it in 15 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 3

B. 1

C. 2

D. 4

Q11 Quant

Sides PQ and QR of a ΔPQR are produced to points S and T. If $\angle PRT > \angle RQS > 50^\circ$ and $\angle PRT + \angle RQS = 220^\circ$, which of the following statements is true?

A. $QR < PR < PQ$ B. $QR < PQ < PR$ C. $PR < PQ < QR$ D. $PQ < PR < QR$ **Q12 Quant**

The frequency distribution of the hourly wages rate of 100 employees of a paper mill is follows. Find the median wage rate (in ₹).

Wages rate(in ₹) 54-56 56-58 58-60 60-62 62-64 Number of workers
20 20 20 20 20

A. 58.9

B. 56.3

C. 59

D. 56.8

Q13 Quant

The HCF and LCM of two numbers are 27 and 324, respectively. If one number is 81, find the other number.

A. 120

B. 108

C. 96

D. 84

Q14 Quant

A teacher records the number of books read by each student in a month: 3, 5, 2, 3, 4, 5, 3, 2, 5, 5. What is the mode of this data set?

A. 4

B. 2

C. 3

D. 5 **Q15 Quant**

Simplify: $156 \div [12 + \{7 \times (15 - 9) - 28\}]$

A. 8

B. 6

C. 12

D. 10

Q16 Quant

A stationery shop sells notebooks and pens. The cost of 4 notebooks and 6 pens is ₹228. The cost of 7 notebooks and 6 pens is ₹333. Find the cost of one notebook.

A. ₹ 37.50

B. ₹ 39

C. ₹ 35

D. ₹ 32

Q17 Quant

A parallelogram has sides 12 cm and 9 cm long. The length of one of its diagonals is 15 cm. What is the area (in cm^2) of the parallelogram?

A. 108

B. 90

C. 135

D. 120

Q18 Quant

What is the mean proportional between 0.16 and 0.49?

A. 0.21

B. 0.26

C. 0.24

D. 0.28 **Q19 Quant**

The price of fuel decreases by 45%, 50% and 25% in three successive months, but increases by 65% in the fourth month. What is the percentage decrease in the price of fuel in the fourth month as compared to its original price? (Round off to 2 decimal places.)

A. 69.13%

B. 70.35%

C. 67.46%

D. 65.97%

Q20 Quant

Priyal is 5 years younger than her brother. After 4 years, the sum of their ages will be 39 years. What is Priyal's current age?

- A. 15 years
- B. 16 years
- C. 14 years
- D. 13 years

Q21 Quant

Pipe X can fill a reservoir in 15 hours and pipe Y can empty it in 20 hours. If both pipes are opened simultaneously and pipe Y is closed after 10 hours, find the total time to fill the reservoir.

- A. 22.5 hours
- B. 23.5 hours
- C. 24 hours
- D. 23 hours

Q22 Quant

The cost of an article is increased by 20% in the first year. In the second year the increased cost is decreased by 24%. If the final cost of the article is ₹1,938, find the original cost of the article.

- A. ₹2,160
- B. ₹2,196
- C. ₹2,148
- D. ₹2,125

Q23 Quant

A jacket has a marked price of ₹5,000. The shopkeeper offers two successive discounts of 20% and 30%. What is the final selling price?

- A. ₹2,800
- B. ₹2,600
- C. ₹2,850
- D. ₹2,650

Q24 Quant

Find the positive integral value of x if the fourth proportional of x, x + 1, 2x + 3 is y and y = 3x + 3.

- A. 2
- B. 5
- C. 3
- D. 4

Q25 Quant

A trader sells goods at a 15% profit but uses a weight of 950 grams for a kilogram. What is his total profit percentage? (Correct to two decimal places.)

- A. 20%
- B. 25%
- C. 21.05%
- D. 18.95%

Q26 Quant

A string initially in the shape of a circle with a radius of 21 cm is cut into two distinct pieces. The first piece is reshaped into a rectangle where the length is twice its breadth, while the second piece is formed into a square. If the perimeter of the rectangle is 24 cm greater than the perimeter of the square, find the breadth of the rectangle. [Use $\pi = 22/7$]

- A. A. 13 cm
- B. B. 4.25 cm
- C. C. 4 cm
- D. D. 26 cm

Q27 Quant

Find the value of $\frac{1.4 \times 1.4 \times 1.4 - 1.2 \times 1.2 \times 1.2}{1.4 \times 1.4 + 1.4 \times 1.2 + 1.2 \times 1.2}$.

- A. 0.52
- B. 2.6
- C. 0.46
- D. 0.2

Q28 Quant

If $\sec\theta + \operatorname{cosec}\theta = a$ and $\tan\theta + \cot\theta = b$, find the value of $\operatorname{cosec}2\theta$.

A. $\frac{a}{2}$

B. $\frac{a^2 - b^2}{2}$

C. $\frac{b^2 - a^2}{2}$

D. $\frac{b}{2}$



Q29 Quant

Find the value of m which satisfies

$$\left(\frac{26}{7}\right)^5 \times \left(\frac{7}{26}\right)^{11} \times \left(\frac{26}{7}\right)^{19} = \left(\frac{7}{26}\right)^{9m + 17}.$$

A.

B.

C.

D. $-\frac{10}{3}$



Q30 Quant

If $\frac{x}{x+1} + \frac{x+1}{x} = \frac{5}{2}$, then find x .

A. -1 or 2

B. 0 or 1

C. 0 or -1

D. 1 or -2



Quant

Q1 Quant

A dishonest shopkeeper claims to sell 1 kg of rice at the cost price per kg. He actually uses a weight of 1200 g while purchasing rice, and a weight of 840 g while selling rice. What is the overall percentage profit made by the shopkeeper? (Round off the result to two decimal places.)

A. 42.86%

B. 41.78%

C. 40.33%

D. 43.44%

Q2 Quant

Five years ago, Rahul was twice as old as his brother. If Rahul is 10 years older than his brother, what is Rahul's present age?

A. 20 years

B. 30 years

C. 15 years

D. 25 years

Q3 Quant

Two taps can fill a cistern in 4 hours and 19 hours, respectively. A third tap can empty it in 19 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 1

B. 3

C. 2

D. 4

Q4 Quant

Which of the expressions given below has the same value as that of $\cos^2(\theta) + \sin^2(\theta)$?

A. $1 + \tan^2(\theta) + (1 - \sec^2(\theta))$ B. $1 + \tan^2(\theta) - (1 - \sec^2(\theta))$ C. $\operatorname{cosec}^2(\theta) + \cot^2(\theta)$ D. $\operatorname{cosec}^2(\theta) + \sec^2(\theta)$

Q5 Quant

What least value must be given to n so that the number 5135n2 becomes divisible by 9?

A. 3

B. 5

C. 4

D. 2

Q6 Quant

Three numbers are in the ratio 3 : 2 : 13, and their LCM is 2574. Their HCF is:8631

A. 76

B. 43

C. 23

D. 33

Q7 Quant

A person spends 75% of his income. If his income increases by 20% and his expenditure increases by 10%, what is the percentage change in his savings?

A. 50% increase

B. 40% increase

C. 60% increase

D. 25% increase

Q8 Quant

A daily commuter usually reaches his office on time by driving at a speed of 40 km/hr. One day, due to traffic, he drives at 30 km/hr and reaches 20 minutes late. What is the distance to his office?

A. 50 km

B. 30 km

C. 40 km

D. 60 km



Q9 Quant

What is the mode of the following data?

53, 46, 55, 53, 40, 48, 53, 47, 41, 54, 43, 55, 54, 51, 43, 42, 44, 47

A. 46

B. 48

C. 55

D. 53

Q14 Quant

Three classes have 60, 40, and 50 students respectively. Their average marks are 65, 72, and 60. What is the average mark of all 150 students combined?

A. 65.2

B. 60

C. 67

D. 70

Q10 Quant

The price of a book is increased from ₹200 to ₹220. What is the percentage increase in the price?

A. 12%

B. 8%

C. 5%

D. 10%

Q15 Quant

If x is the fourth proportional of 37, 25 and 888, what is the value of x ?

A. 600

B. 500

C. 800

D. 400

Q11 Quant

The sum of two positive numbers is 26 and their product is 144. The positive difference between them is:

A. 13

B. 5

C. 16

D. 10

Q16 Quant

A sum of money is invested at a simple interest rate of 8% per annum. After 3 years, the simple interest earned is ₹1,920. What is the principal invested?

A. ₹9,000

B. ₹7,500

C. ₹8,000

D. ₹6,000

Q12 Quant

The L.C.M. of two numbers is 210 and their H.C.F. is 3. If the first number is divided by 3, the quotient is 7 and the remainder is 0. The second number is:

A. 25

B. 60

C. 30

D. 35

Q17 Quant

Amit and Raghav invest in a business in the ratio 5 : 7. If the total profit is ₹48,000, what is Raghav's share?

A. ₹30,000

B. ₹32,000

C. ₹28,000

D. ₹26,000

Q13 Quant

The price of a laptop was initially \$1,200. During a sale, the price was first reduced by 20%, and then an additional discount of 15% was applied to the new price. What is the final price of the laptop?

A. \$899

B. \$816

C. \$799

D. \$780

Q18 Quant

A cylindrical pipe has an external radius of 8 cm and an internal radius of 7 cm. If its length is 20 cm, what is the volume of material used in the pipe? (Use $\pi = 3.14$)

A. 320 cubic cm

B. 201 cubic cm

C. 942 cubic cm

D. 192 cubic cm

Q19 Quant

The difference between two numbers is 8. If twice the larger number is 4 more than three times the smaller number, what is the larger number?

A. 16

B. 14

C. 20



D. 18

Q20 Quant

A pen is priced at ₹47. A scheme offers "Buy 4, Get 1 at 50% off". What is the effective price per pen?

A. ₹39.30

B. ₹40.30

C. ₹42.30



D. ₹38.30

Q21 Quant

A train A passes a fixed pole in 24 seconds. The same train completely crosses another train B of length 150 m coming from the opposite direction in 20 seconds. Train B's speed is 54 km/h. Find the length and the speed of train A.

A. 900 m and 135 km/h



B. 500 m and 135 km/h

C. 600 m and 135 km/h

D. 900 m and 134 km/h

Q22 Quant

The 7-digit number 77A444B is divisible by 24. What is the maximum value of (A + B)?

A. 12

B. 13

C. 16



D. 15

Q23 Quant

What sum (in ₹) will earn a simple interest of ₹1,320 in 4 years at 12% per year rate of interest?

A. 1,375

B. 633.6

C. 5,500

D. 2,750

**Q24 Quant**

In an educational institute, the ratio of male students to female students is 4 : 3. The ratio of the same female students to teaching staff is 8 : 1. Find the ratio of total students (male + female) to teaching staff.

A. 66 : 7

B. 21 : 2

C. 27 : 1

D. 56 : 3

**Q25 Quant**

Two pipes, A and B, can fill a tank in 20 minutes and 30 minutes, respectively. A waste pipe C can empty it in 60 minutes. All three are opened together. After 10 minutes, pipe C is closed. How much total time will it take to fill the tank?

A. 17 minutes

B. 15 minutes

C. 12 minutes

D. 14 minutes

**Q26 Quant**

A shopkeeper sells an article for ₹1,200 at a 20% profit. At what price (in ₹) should he sell the article to incur a loss of 10%?

A. ₹950

B. ₹875

C. ₹900



D. ₹980

Q27 Quant

If $(3^{-22} + 3^{-19} + 3^{-17} + 3^{-16}) = k(3^{-24})$, then find the value of k.

A. 3000

B. 9000

C. 900

D. 1000

Q28 Quant

A solid cylinder of radius 35 cm and height 50 cm is melted and recast into smaller identical cylinders, each having radius 3.5 cm and height 15 cm. How many complete such smaller cylinders are formed?

A. A. 260

B. B. 222

C. C. 121

D. D. 333

Q29 Quant

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 21$ cm, $BC = 33$ cm, $DC = 11$ cm, and $AD = 52$ cm, then what is the length (in cm) of EF?

A. 4

B. 6

C. 3

D. 5

Q30 Quant

If $2^x - 2^{x-1} = 32$, then the value of $\frac{2x-1}{2x+3}$ is:

A. A. $\frac{11}{13}$ B. B. $\frac{11}{14}$ C. C. $\frac{11}{12}$ D. D. $\frac{11}{15}$ 

Quant

Q1 Quant

The present ages of A and B are in the ratio 5 : 7. After 6 years, the sum of their ages will be 60 years. What is A's present age?

A. 20 years

B. 30 years

C. 40 years

D. 25 years

Q2 Quant

The average of 8 numbers is 43. If each number is decreased by 7, what will the new average be?4635

A. 43

B. 36

C. 8

D. 29

Q3 Quant

Two trains of lengths 100 m and 150 m are moving in opposite directions at 40 km/h and 60 km/h, respectively. Find the time taken by the trains (in seconds) to cross each other.

A. 9 seconds

B. 8.9 seconds

C. 9.5 seconds

D. 8 seconds

Q4 Quant

Juhi and Mamta have certain amount of money. If Juhi gives ₹30 to Mamta, Juhi will then have twice as much money as Mamta. However, if Mamta gives ₹10 to Juhi, Juhi will then have four times as much money as Mamta. What is the total amount of money (in ₹) that Juhi and Mamta initially had together?

A. 310

B. 320

C. 290

D. 300

Q5 Quant

Pipes A, B and C can together fill a tank in 6 hours. After working together for 2 hours, C is closed and A and B together fill the remaining part in 7 hours. The time taken (in hours) by C alone to fill the tank is:

A. 9

B. 12

C. 14

D. 21

Q6 Quant

₹1,472 is divided among Rohit, Maya, and Vikas in such a way that if ₹25, ₹52, and ₹18 be deducted from their respective shares, they have money in the ratio 15:19:17. Find Vikas's amount after deduction.

A. ₹459

B. ₹509

C. ₹559

D. ₹359

Q7 Quant

The ages of father and son are in the ratio of 12:7. Four years from now, their ages will be in the ratio of 5:3. Find the sum of their present ages.

A. 119 years

B. 128 years

C. 152 years

D. 139 years

Q8 Quant

What is the average of prime numbers lying between 5 and 30?

A. 17

B. 21

C. 23

D. 19



Q9 Quant

A wholesaler allows a scheme discount of 25% on an article whose marked price is ₹2,400. The retailer is required to pay the remaining amount in full. What is the net price paid by the retailer?

A. ₹1,750

B. ₹1,700

C. ₹1,800

D. ₹1,900

Q10 Quant

If the cost of 6 chocolates, 12 chocolates, and x chocolates are in proportion such that x is the third proportional, how many chocolates correspond to x ?

A. 24

B. 28

C. 26

D. 32

Q11 Quant

A sum, when invested at 20% simple interest per annum, amounts to ₹5,040 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 years?3953

A. 5,040

B. 1,260

C. 630

D. 2,520

Q12 Quant

If the ratio of the height of a tower and the length of its shadow on the ground is $\sqrt{3} : 1$, then the angle of elevation of the sun is:

A. 30°

B. 45°

C. 60°

D. 65°

Q13 Quant

P sells an item to Q and earns 12% profit. Q sells it to R and earns a profit of ₹26. If the item was sold to R directly by P at the same price, the percentage of profit would have been 25%. The cost price of the item is ₹_____.

A. 220

B. 250

C. 200

D. 180

Q14 Quant

A sum is invested at 8% per annum, compounded half-yearly. If the amount after one year is ₹10,816, then what was the principal (in ₹)?

A. 10,000

B. 10,500

C. 10,400

D. 10,200

Q15 Quant

The sum of the surface areas of two spheres is 12584π sq. cm. The radius of the larger sphere is five times the radius of the smaller sphere. Find the diameter of the larger sphere.

A. 115 cm

B. 110 cm

C. 125 cm

D. 120 cm

Q16 Quant

A cyclist travels from town A to town B, a distance of 182 km. For the first 84 km, he rides at a certain speed. For the remaining distance (98 km), he increases his speed by 7 km/h and therefore reaches 42 minutes earlier than the time he would have taken if he had travelled the entire distance at the original speed. Find the original speed.

A. 21 km/hr

B. 28 km/hr

C. 24 km/hr

D. 22.5 km/hr

Q17 Quant

The sum of two positive numbers is 14 and their product is 45. The positive difference between them is:

A. 4

B. 7

C. 11

D. 8

Q18 Quant

The marked price of a cooker is the same at four shops I, II, III and IV. Shop I allows two successive discounts of 89% and 68%, shop II allows successive discounts of 50% and 51%, shop III allows successive discounts of 25% and 11% and shop IV allows successive discounts of 94%, 49%, and 21% on the marked price of the cooker. Which shop is selling the cooker at the lowest price?3338

A. II

B. III

C. I

D. IV

Q19 Quant

A shirt costs ₹655. During a sale, its price is reduced by 20%. What is the new price (in ₹) of the shirt?

A. 526

B. 524

C. 525

D. 527

Q20 Quant

The LCM of the numbers 15, 10 and 0.4 is:8522

A. 34

B. 32

C. 30

D. 36

Q21 Quant

A and B can do a piece of work in 12 days and 6 days, respectively. Both work for 2 days and then A leaves. B completed the remaining work alone. The whole work was completed in _____ days.

A. 3

B. 4

C. 6

D. 5

Q22 Quant

Which of the following options is the nearest number to 95061 that is divisible by 9?

A. 95059

B. 95057

C. 95060

D. 95058

Q23 Quant

Which of the following are true to construct a quadrilateral uniquely?

(i) Rhombus and square can be constructed when 2 diagonals are given.

(ii) The lengths of 2 adjacent sides and 2 angles are given.

(iii) The lengths of 3 sides and 1 angle are given.

(iv) The lengths of 4 sides and 1 diagonal are given.

A. (i) and (iii)

B. (ii) and (iv)

C. (ii) and (iii)

D. (i) and (iv)

Q24 Quant

If the sum of two distinct consecutive prime numbers is 36, what is the product of the two primes?

A. 221

B. 289

C. 361

D. 323

Q25 Quant

The mode of the numbers 7, 8, 7, 9, 10 is:

A. 10

B. 8

C. 7

D. 9

Q26 Quant

An investor's portfolio value decreases by 30% in the first quarter but then increases by 50% in the next quarter. What is the overall percentage change in the portfolio value?

A. 20% increase

B. 5% increase

C. 15% decrease

D. 10% increase



Q27 Quant

A fruit seller uses a faulty balance that reads 900 grams as 1 kg. He sells apples at ₹150 per kg (as per faulty balance). If his purchase price is ₹120 per kg (actual weight), what is his actual profit percentage?

A. A. $37\frac{8}{9}\%$

B. B. $38\frac{4}{9}\%$

C. C. $37\frac{4}{9}\%$

D. D. $38\frac{8}{9}\%$ ✓

Q28 Quant

The radius of the base of a cylinder is 3.5 cm and its curved surface area is 616 cm^2 . Find the volume of the cylinder.

(Take $\pi = \frac{22}{7}$)

A. 1370 cm^3

B. 1024 cm^3

C. 1424 cm^3

D. 1078 cm^3 ✓

Q29 Quant

Simplify $\left\{\left(\frac{20}{36}\right) \div \left(\frac{20}{5}\right)\right\} \div \left(\frac{5}{11} \times \frac{22}{15} + \frac{3}{12}\right) + \frac{5}{5} \div \frac{33}{21}$ of $\frac{21}{5}$

A.

B.

C. ✓

D.

Q30 Quant

Simplify: $\frac{(3^2 \times 9)^3}{27^2 \times 3^4}$

A. A. $\frac{1}{9}$

B. B. $\frac{1}{3}$

C. C. **9** ✓

D. D. **3**



Quant

Q1 Quant

If the wages for 9 workers for 8 days are ₹2,880, what will be the wages for 15 workers for 9 days at the same rate?

- A. ₹5,400
- B. ₹3,520
- C. ₹3,880
- D. ₹3,600

Q2 Quant

A car covers 360 km at a uniform speed in 8 hours. Find its speed in metres per second.

- A. 12.5 m/s
- B. 12 m/s
- C. 13 m/s
- D. 13.5 m/s

Q3 Quant

A man covers a certain distance by train. Had the train moved 14 km/hr faster, it would have taken 35 minutes less. If it moved 10 km/hr slower, it would have taken 30 minutes more. Find the distance covered by the train during the journey.

- A. 780 km
- B. 560 km
- C. 480 km
- D. 720 km

Q4 Quant

A and B can do a piece of work in 12 days and 20 days, respectively. Both work for 3 days and then A leaves. How long (in days) will B take to complete the remaining work?

- A. 11
- B. 12
- C. 13
- D. 14

Q5 Quant

The price of a machine is increased by 20%. Due to a fall in demand, the increased price is then decreased by 25%. Finally, the price is again increased by 10%. The overall percentage change in the price of the machine is:

- A. 1.1% increase
- B. 1.1% decrease
- C. 1% increase
- D. 1% decrease

Q6 Quant

Four years ago, Ravi was thrice as old as Kaviraj. At present, Ravi is twice as old as Kaviraj. Find Ravi's age at present.

- A. 10 years
- B. 16 years
- C. 14 years
- D. 8 years

Q7 Quant

The LCM of the numbers 3, 7.2 and 0.64 is:

- A. 96
- B. 72
- C. 153
- D. 144

Q8 Quant

A factory produces three types of widgets: A, B, and C. In one week, 12 units of A (average weight 47 kg each), 8 units of B (average weight 62 kg each), and 15 units of C (average weight 53 kg each) are manufactured. What is the weighted average weight of the widgets produced in that week?

- A. 52.5 kg
- B. 53 kg
- C. 54 kg
- D. 51 kg

Q9 Quant

An article is sold at a profit of 20%. If the selling price is reduced by 10%, what will be the profit percentage?

A. 8%



B. 12%

C. 20%

D. 6%

Q10 Quant

A student adds $\frac{3}{5}$ unit of a solution, then adds 0.4 unit of the same solution, and finally removes $\frac{1}{10}$ unit. What is the net change in the quantity of the solution?

A. increase of 0.9 unit



B. decrease of 0.8 unit

C. increase of 1.0 unit

D. decrease of 1.5 unit

Q11 Quant

A customer orders food online worth ₹1,000. The food delivery app offers a flat promotional discount of 20% on the bill. After this discount, if the amount falls between ₹650 to ₹800 (both inclusive), an additional discount of 5% is applied on that bill. If the bill includes a fixed delivery charge of ₹80 on all orders, what is the final amount the customer has to pay?

A. ₹840



B. ₹800

C. ₹760

D. ₹900

Q12 Quant

Pipes C and D can fill a tank of 3,000 litres in 6 hours and 4 hours, respectively. Working together, how many hours will they take to fill a 6,000-litre tank?

A. 4.8 hours



B. 3.5 hours

C. 4.44 hours

D. 6 hours

Q13 Quant

Find the smallest positive integer that leaves a remainder of 2 when divided by 3, a remainder of 3 when divided by 4, and a remainder of 4 when divided by 5.

A. 53

B. 50

C. 69

D. 59

**Q14 Quant**

If $31 \times 13 + 18 \times 86 - 86 = y$, then what is the value of y ?

A. 1865



B. 1965

C. 1665

D. 1765

Q15 Quant

The average of 7 consecutive even numbers is 32. Find the sum of the smallest and largest numbers.

A. 66

B. 62

C. 64



D. 68

Q16 Quant

A number is divided into two sections such that one part is 10 more than the other. If their ratio is 6:4, what are the two parts of the number?

A. 32 and 22

B. 34 and 24

C. 32 and 20

D. 30 and 20

**Q17 Quant**

An article is sold at a profit of 38%. If the cost price is increased by ₹20 and the selling price is reduced by ₹45, then the profit would be 37.5%. What is the original cost price (in ₹) of the article?

A. 14,700

B. 14,400

C. 14,500



D. 14,300

Q18 Quant

A family increases its monthly income by 10% but their monthly expenditure rises by 20%. If their original monthly income was ₹45,000 and monthly expenditure was ₹36,000, what is the new monthly savings after the increase?

A. ₹6,200

B. ₹6,300

C. ₹6,500

D. ₹6,400

Q19 Quant

The ratio of land to water for Earth as a whole is 1:3, and it is 2:5 in the Northern hemisphere. If the areas of the Northern and the Southern hemispheres are equal, then the ratio of land to water in the Southern hemisphere is:

A. 1:5

B. 3:11

C. 7:5

D. 11:7

Q20 Quant

If a sum is invested at a simple interest rate of 8% per annum for 9 months to earn an interest of ₹18,000, what was the principal amount invested?

A. ₹2,50,000

B. ₹3,00,000

C. ₹4,00,000

D. ₹3,50,000

Q21 Quant

A trader offers "Buy two, get one free" on a certain pair of trousers. If the marked price of the pair of trousers is ₹ 2700, and the trader still earns a profit of 20%, find the cost price of one pair of trousers for the trader.

A. ₹ 1,450

B. ₹ 1,600

C. ₹ 1,550

D. ₹ 1,500

Q22 Quant

The total surface area of a cube having side 64 cm is:

A. 24,528 cm²

B. 24,548 cm²

C. 24,589 cm²

D. 24,576 cm²

Q23 Quant

The sum of two positive numbers is 13 and their product is 30. The positive difference between them is:

A. 12

B. 9

C. 8

D. 7

Q24 Quant

To prepare a fruit punch, 2 litres of orange juice are mixed with 5 litres of water. How much water is required if 5 litres of orange juice are used?

A. 12.5 litres

B. 15.5 litres

C. 10 litres

D. 18 litres

Q25 Quant

Simplify $\left\{\left(\frac{13}{33}\right) \div \left(\frac{13}{7}\right)\right\} \div \left(\frac{2}{8} \times \frac{16}{6} + \frac{5}{11}\right) + \frac{7}{3} \div \frac{37}{20}$ of $\frac{20}{3}$

A. B. C. D.

Q26 Quant

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 23$ cm, $BC = 91$ cm, $DC = 35$ cm, and $AD = 62$ cm, then what is the length (in cm) of EF?

A. 6 B. 9 C. 8 D. 7

Q27 Quant

The shadow of a tower increases by 20 m when the sun's altitude changes from 60° to 45° . Find the length (rounded off to one decimal place, in m) of the tower.

(Use $\sqrt{3} = 1.7$)

A. 24.7 B. 17.4 C. 48.6 D. 27.5

Q28 Quant

Find the compound interest on ₹25,600 at the rate of $12\frac{1}{2}$ % interest per annum for 2 years 3 months, compounded annually.

A. ₹8,650.50 B. ₹9,750.50 C. ₹7,812.50 D. ₹10,580.50

Q29 Quant

A, B and C are partners in a business. A, whose money has been used for 4 months, claims $\frac{1}{8}$ of the profit. B, whose money has been used for 6 months, claims $\frac{1}{8}$ of the profit. C had invested ₹ 1560 for 8 months. How much money did A contribute?

A. ₹690

B. ₹794

C. ₹720

D. ₹810



Q30 Quant

A regular polygon has 45 sides, each of length 2 cm. The area (in cm^2) of the polygon is

A. $45 \cot(4^\circ)$

B. 45

C. $45 \tan(4^\circ)$

D. $45 \cos(4^\circ)$



Quant

Q1 Quant

Pipes, A and B, can fill a tank in 10 hours. Pipes, B and C, can fill the same tank in 20 hours. If pipe B alone can fill the same tank in 30 hours, how much time will the pipes A and C take together to fill the same tank.

- A. 13 hours
- B. 12 hours ✓
- C. 16 hours
- D. 14 hours

Q2 Quant

A trader buys a mobile phone for ₹8000, spends ₹500 on repairs, and sells it at a profit of 20% on the total cost. Later, the buyer resells it at a loss of 25%. What price does the final buyer pay for the mobile phone?

- A. ₹9600
- B. ₹7000
- C. ₹10500
- D. ₹7650 ✓

Q3 Quant

A and B can complete a piece of work in 12 days and 6 days, respectively. Both work together for 2 days and then A leaves. B completes the remaining work alone. In how many days is the whole work completed?

- A. 3
- B. 4
- C. 6
- D. 5 ✓

Q4 Quant

₹5,278 is divided among X, Y, and Z in such a way that if ₹67, ₹61, and ₹68 are deducted from their respective shares, they have money in the ratio 8 : 20 : 5. Find X's share after deduction.

- A. ₹1,232 ✓
- B. ₹1,132
- C. ₹1,082
- D. ₹1,332

Q5 Quant

Find the third proportional to 8 and 48.2.

- A. 294.205
- B. 296.605
- C. 290.405 ✓
- D. 292.805

Q6 Quant

A faster train overtakes a slower train, both moving in the same direction. The faster train takes 36 seconds to completely pass the slower train. A passenger sitting in the faster train observes that he passes the slower train in 12 seconds. Find the ratio of the length of the faster train to the length of the slower train.

- A. 1 : 1
- B. 3 : 2
- C. 3 : 1
- D. 2 : 1 ✓

Q7 Quant

A positive integer N divides 228, leaving a remainder of 18. What is the greatest two-digit value of N?

- A. 60
- B. 70 ✓
- C. 84
- D. 42

Q8 Quant

What sum (in ₹) will earn a simple interest of ₹1,320 in 4 years at 8% per year rate of interest?

- A. 4,125 ✓
- B. 8,250
- C. 2,062.5
- D. 422.4

Q9 Quant

From the top of a 75-meter-high lighthouse, the angles of depression of two ships are 30° and 45° . If the two ships are on the same side of the lighthouse and in a straight line with its base, find the distance between the two ships. (Use $\sqrt{3} = 1.732$)

- A. 54.9 meters
- B. 61.2 meters
- C. 58.4 meters
- D. 52.5 meters

Q10 Quant

Two trains, 130 meters and 120 meters long, are running in parallel tracks in the same direction at speeds of 62 km/hr and 44 km/hr, respectively. How much time will the faster train take to completely cross the slower one?

- A. 55 seconds
- B. 45 seconds
- C. 50 seconds
- D. 60 seconds

Q11 Quant

The ratio of the radii of two spheres is 2 : 3. If the radius of the first sphere is increased by 50% and the radius of the second sphere is increased by 20%, find the ratio of their new volumes.

- A. 144 : 125
- B. 216 : 343
- C. 125 : 216
- D. 125 : 169

Q12 Quant

A pentagon is divided into three triangles by drawing diagonals from one of its vertices. The areas of two of these triangles are 24 cm^2 and 30 cm^2 . The third triangle has a base of 12 cm and a height of 38 cm. What is the area (in cm^2) of the pentagon?

- A. 228
- B. 275
- C. 282
- D. 242

Q13 Quant

Two friends, P and Q, started a business by investing ₹3,000 and ₹600, respectively. At the end of one year, the business earned a total profit of ₹54,846. What is the share (in ₹) of P in the profit?

- A. 45,855
- B. 45,555
- C. 45,705
- D. 45,605

Q14 Quant

Chetan's salary is ₹16000 per month. He spends ₹6000 on house rent, ₹1500 on bills and the rest of the amount is his monthly savings. Find his savings (in ₹) in a year, if in the month of his birthday he spent his complete monthly saving for birthday celebration. 2480

- A. 85000
- B. 102000
- C. 93500
- D. 76500

Q15 Quant

If the average of four numbers is 15, and three of the numbers are 10, 20, and 25, what is the fourth number?

- A. 20
- B. 5
- C. 15
- D. 10

Q16 Quant

Evaluate $25^3 + (-7)^3 + (-18)^3$

- A. 9450
- B. 9350
- C. 9173
- D. 9490

Q17 Quant

The price of an article is successively increased by 9% and 13%. Find the percentage increase in the price of the article.

- A. 20.68%
- B. 22.57%
- C. 24.69%
- D. 23.17%

Q18 Quant

The present age of a father is equal to sum of ages of his son and daughter. Ten years ago from now, the age of the father was double the age of the son and four times the age of the daughter. The total present age of the father, daughter and son is ___ years.

A. 120

B. 60

C. 100

D. 80

Q19 Quant

The simple interest on a certain sum for 4 years at 10% interest per annum is ₹3,200. What will be the amount payable after 6 years at the same rate?

A. ₹12,800

B. ₹11,400

C. ₹12,400

D. ₹11,800

Q20 Quant

In a class, the average weight of the boys is 65 kg and the average weight of the girls is 45 kg. The average weight of the whole class is 57 kg. What is the ratio of the number of girls to the number of boys in the class?

A. 2:3

B. 3:2

C. 4:3

D. 3:4

Q21 Quant

Three numbers are in the ratio 3 : 7 : 2, and their LCM is 5376. Their HCF is:8629

A. 128

B. 140

C. 161

D. 162

Q22 Quant

A store offers a 10% festival discount on the marked price of ₹900. Later, to clear the stock, it offers an additional 5% off on the already discounted price. What is the total amount paid by the customer?

A. ₹785.50

B. ₹790

C. ₹775

D. ₹769.50 **Q23 Quant**

Two positive numbers are in the ratio 2:3. If the product of their LCM and HCF is 294, then find the sum of the two numbers.

A. 20

B. 30

C. 15

D. 35 **Q24 Quant**

$324 \times 24 = 7776$. What will $7.776 \div 2.4$ be equal to?

A. 0.324

B. 32.4

C. 3.24

D. 0.0324

Q25 Quant

The numerator of a fraction is 8 less than the denominator. If the denominator is increased by 5 and the numerator is increased by 3, we get

the fraction $\frac{3}{4}$. Find the original fraction.

A. $\frac{11}{14}$

B. $\frac{27}{35}$ ✓

C. $\frac{19}{23}$

D. $\frac{3}{5}$

Q26 Quant

Simplify: $8^2 + \sqrt{8^2} - \sqrt{49} - 6$

A. 50

B. 59 ✓

C. 53

D. 66

Q27 Quant

Simplify: $\frac{\left(\frac{13}{21}\right)}{\left(\frac{13}{10}\right)} \div \left(\frac{5}{9} \times \frac{18}{15} + \frac{5}{7}\right) + \frac{10}{6} \div \frac{29}{15}$ of $\frac{15}{6}$

A.

B.

C.

D. ✓

Q28 Quant

Ravi buys an article with a discount of 25% on its marked price. He makes a profit of 10% by selling it at ₹1,320.

The marked price of the article was:

A. ₹1,650

B. ₹1,550

C. ₹1,400

D. ₹1,600 ✓



Q29 Quant

Surjeet buys 20 kg of sugar for ₹900. He sells 18 kg of sugar for ₹918. What is the percentage profit made by Surjeet?

A. $13\frac{1}{9}\%$

B. $11\frac{1}{9}\%$

C. $11\frac{1}{3}\%$

D. $13\frac{1}{3}\%$ ✓

Q30 Quant

In $\triangle ABC$, $\angle A = (3x - 7)^\circ$, $\angle B = 2\angle A$ and $\angle C = (4x + 6)^\circ$. Find the value of $\angle A + \angle C$.

A. 135°

B. 148°

C. 115°

D. 104° ✓



Quant

Q1 Quant

If the interest on a sum of ₹y at 10% per annum compounded annually for 2 years is ₹630, then the total amount payable at the end of the two-year period will be _____.

A. ₹3,540

B. ₹3,630

C. ₹4,100

D. ₹3,950

Q2 Quant

A car travels 120 km at 40 km/h, 120 km at 60 km/h, and 100 km at 80 km/h. What is the average speed of the car for the whole journey?

A. 55.6 km/h

B. 65 km/h

C. 62.5 km/h

D. 54.4 km/h

Q3 Quant

Priya lent ₹920 to her friend at 5% per annum simple interest for 3 years. How much simple interest does she earn in this period?

A. ₹145

B. ₹150

C. ₹127

D. ₹138

Q4 Quant

Evaluate $22^3 + (-16)^3 + (-6)^3$

A. 6303

B. 6220

C. 6336

D. 6313

Q5 Quant

A wholesaler offers a discount of 10% on a commodity, marked at ₹3,000, on an order of less than 20 items. Also, on an order of more than 20 items, an additional discount of 5% is offered on the commodity. What amount does a retailer have to pay to purchase 25 items of the commodity whose marked price is ₹3,000?

A. ₹72,543

B. ₹25,650

C. ₹26,125

D. ₹64,125

Q6 Quant

A, B and C are three batsmen. The ratio of runs scored by them in a certain match was A : B = 15 : 17 and B : C = 14 : 19. At the end of the match, they scored 1542 runs. Find the number of runs scored by A.

A. 420

B. 520

C. 540

D. 480

Q7 Quant

Which single digit should replace the blank in the number 1_36 so that the number is divisible by 9?

A. 1

B. 8

C. 5

D. 3

Q8 Quant

If the 8-digit number 79243p25 is divisible by 11, then the minimum value of p is:

A. 4

B. 7

C. 2

D. 8

Q9 Quant

A car travels a distance of 540 km. For the first 3 hours, it travels at a speed of 80 km/h, and for the remaining hours, it reduces its speed to 60 km/h. Find the total time taken by the car to cover the entire distance.

- A. 6 hours
- B. 4 hours
- C. 2 hours
- D. 8 hours

Q10 Quant

In a smart city, the number of electric vehicles increased by 18% in 2021 and 22% in 2022. What is the total percentage increase in electric vehicles over the two years?

- A. 41.6%
- B. 46%
- C. 40%
- D. 43.96%

Q11 Quant

Riya, Kabir, and Sana start a business together. Riya invests ₹13500 for 8 months, Kabir invests ₹21000 for 6 months, and Sana invests ₹18000 for 12 months. At the end of the year, they earn a total profit of ₹12,600. What is Kabir's share of the profit (in ₹)?

- A. ₹3,528
- B. ₹4,285
- C. ₹4,030
- D. ₹3,722

Q12 Quant

If the arithmetic mean of five numbers is 20 and one number is changed from 10 to 20, what happens to the mean?

- A. It decreases by 5
- B. It decreases by 2
- C. It increases by 2
- D. It stays the same

Q13 Quant

The HCF of two numbers is 8, and their LCM is 240. If the sum of the two numbers is 88, what are the numbers?

- A. 40 and 48
- B. 24 and 64
- C. 16 and 72
- D. 32 and 56

Q14 Quant

X can finish a job in 20 days. Y can complete the same job in 15 days. If X and Y work together for 5 days and X leaves, how long will Y take to finish the remaining work?

- A. 5 days
- B. 6.25 days
- C. 7 days
- D. 4.5 days

Q15 Quant

The population of a town decreased from 8,000 to 7,200 in one year. What is the percentage decrease?

- A. 8%
- B. 15%
- C. 12%
- D. 10%

Q16 Quant

A vendor uses a 50 g stone in place of a 60 g weight while selling salt. If he sells the salt at the cost price per kilogram, what is his profit percentage on the transaction?

- A. 15%
- B. 20%
- C. 16.67%
- D. 18%

Q17 Quant

Three friends P, Q, and R start a business by investing in the ratio 2:3:5. If the total profit is ₹10,000, how much more does R receive than P?

- A. ₹2,000
- B. ₹3,000
- C. ₹1,000
- D. ₹4,000

Q18 Quant

If a sphere with radius 10 cm is painted, but 25% of its surface area is masked and not painted, what is the painted area?

- A. 400π cm²
- B. 200π cm²
- C. 300π cm²
- D. 100π cm²

Q19 Quant

Three numbers are in the ratio 3 : 2 : 11, and their LCM is 3564. Their HCF is:8633

A. 38

B. 67

C. 54

D. 88

Q20 Quant

The weighted average marks of a student in Physics, Chemistry and Mathematics are 68. The weightages of the subjects Physics, Chemistry and Mathematics are in the ratio 3 : 2 : 5. If the student scored 60 in Physics and 70 in Chemistry, then find the marks in Mathematics.

A. 68

B. 66

C. 72

D. 74

Q21 Quant

Two taps can fill a cistern in 4 hours and 17 hours, respectively. A third tap can empty it in 17 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 1

B. 2

C. 3

D. 4

Q22 Quant

A shopkeeper sells a watch at a loss of 10%. If he had sold it for ₹450 more, he would have made a profit of 5%. What is the cost price of the watch?

A. ₹3,500

B. ₹3,000

C. ₹4,500

D. ₹4,000

Q23 Quant

The sum of two digits of a 2-digit number is 9. If the number obtained by interchanging the digits exceeds the original number by 27, find the number.

A. 63

B. 27

C. 45

D. 36

Q24 Quant

A shopkeeper fixes the marked price of an item 165% above its cost price. What percentage of discount on marked price should be allowed to gain 112%?

A. 21%

B. 20%

C. 23%

D. 19%

Q25 Quant

The present ages of P and Q are in the ratio 4 : 5. Eight years ago, the ratio of their ages was 2 : 3. The harmonic mean of their present ages is

A. $18\frac{7}{9}$ years

B. $16\frac{7}{9}$ years

C. $19\frac{7}{9}$ years

D. $17\frac{7}{9}$ years

Q26 Quant

A floor is paved with 500 identical parallelogram – shaped tiles. The base and corresponding height of each tile are 8 cm and 6 cm, respectively. What is the total area of the floor covered by the tiles (in cm^2)?

A. 28,000

B. 24,000

C. 20,000

D. 26,000

Q27 Quant

Given that $119^{0.49} = x$, $119^{0.62} = y$ and $x^z = y^6$, then the value of z is close to:

A. 6.55

B. 7.59

C. 6.63

D. 9.75

Q28 Quant

ABC is an equilateral triangle with side 24 cm and AD is the median. If G is the centroid of the triangle ABC, find the length (in cm) of GD.

A. $4\sqrt{3}$

B. $6\sqrt{2}$

C. $3\sqrt{2}$

D. $9\sqrt{3}$



Q29 Quant

A vertical tower stands on level ground. From a point P, the angle of elevation to the top is 30° . After moving 100 m closer to the tower along the line joining P to the foot of the tower, the angle of elevation becomes 60° . The height of the tower is:

A. $25\sqrt{3}$ meters

B. $75\sqrt{3}$ meters

C. $150\sqrt{3}$ meters

D. $50\sqrt{3}$ meters

Q30 Quant

Find the value of m which satisfies

$$\left(\frac{22}{5}\right)^{18} \times \left(\frac{5}{22}\right)^8 \times \left(\frac{22}{5}\right)^6 = \left(\frac{5}{22}\right)^{9m+4}.$$

A.

B.

C.

D.

Quant

Q1 Quant

S's expenditure is double the difference between his savings and expenditure. What percentage of his salary is his expenditure?

A. 46%

B. 42%

C. 44%

D. 40%

Q5 Quant

The sum of two positive numbers is 88 and their product is 1927. The positive difference between them is:

A. 21

B. 6

C. 17

D. 26

Q2 Quant

The following data represents the weekly wages (in ₹) of the employees

Find the arithmetic mean of the weekly wages (in ₹). Weekly wages (in ₹) 900 1000 1100 1200 1300 1400 1500 Number of employees 12 12 14 13 14 11 14

A. ₹1186.25

B. ₹1204.44

C. ₹1226.85

D. ₹1056.35

Q6 Quant

A cyclist travels from point A to B and then returns from B to A along the same route. On the onward journey, he covers two-fifths of the distance at 15 km/hr and the remaining distance at 20 km/hr. On the return journey, he covers one-fourth of the distance at 16 km/hr and the remaining distance at 24 km/hr. Find the average for the entire trip. (Round off your answer to two decimal places.)

A. 23.34 km/hr

B. 17.54 km/hr

C. 19.32 km/hr

D. 20.56 km/hr

Q3 Quant

The simple interest on ₹55,000 at 5.5% per annum simple rate of interest is ₹_____ in 5.5 years.

A. 14,452.5

B. 15,525.5

C. 16,637.5

D. 17,712.5

Q7 Quant

The largest four-digit number which when divided by 6, 10 and 14 leaves remainder 3 in each case is:

A. 9889

B. 9873

C. 9932

D. 9716

Q4 Quant

A sum becomes ₹9,075 after 2 years at 10% per annum compound interest, compounded annually. What was the principal amount (in ₹)?

A. 7,500

B. 8,000

C. 7,800

D. 7,650

Q8 Quant

A man sells a watch at a loss of 10%. Had he increased the selling price by ₹120, the transaction would have resulted in a gain of 5%. Determine the selling price of the watch.

A. ₹800

B. ₹840

C. ₹760

D. ₹720

Q9 Quant

A customer is given two options for purchasing a product priced at ₹8,000:

Option 1: A single discount of 30%.

Option 2: Successive discounts of 20% and 15%.

Which option provides a greater discount, and by how much?

A. Option 1 and by ₹150

B. Option 2 and by ₹160

C. Option 1 and by ₹160

D. Option 2 and by ₹150

Q10 Quant

Saumya has ₹ 24,800 in denominations of ₹500 and ₹100 notes. The number of ₹500 notes is 4 more than the number of ₹100 notes.

Find the number of ₹100 notes.

A. 38

B. 36

C. 42

D. 40

Q11 Quant

A person walks 40 km at a speed of 5 km/hr, then runs 30 km at a speed of 10 km/hr. What is the ratio of walking time to running time?

A. 8 : 3

B. 3 : 8

C. 3 : 5

D. 5 : 3

Q12 Quant

The 7-digit number 12A916B is divisible by 24. What is the maximum value of (A + B)?

A. 13

B. 16

C. 17

D. 12

Q13 Quant

Suppose the ratio of income to expenditure is 8 : 5. If income rises by 40% and expenditure falls by 10%, and the initial expenditure is ₹10,000, what is the amount (in ₹) of saving after these changes?

A. 13,400

B. 13,300

C. 13,200

D. 13,500

Q14 Quant

What is the smallest natural number 'x' that needs to be subtracted from 13 and 25 so that the fourth proportional of the resulting numbers is 49?

A. 3

B. 4

C. 2

D. 5

Q15 Quant

The area of a regular polygon with a side of 11 cm is 247.5 cm². If the perpendicular distance from the centre to the side of the polygon is 9 cm, what is the number of sides of the polygon?

A. 6

B. 8

C. 7

D. 5

Q16 Quant

If a and b are two coprime numbers such that $a + b = 41$, then what is the maximum possible value of $a \times b$?

A. 540

B. 420

C. 210

D. 360

Q17 Quant

Three bags A, B, and C contain only red and blue marbles.

In Bag A, the ratio of red to blue marbles is 2 : 3.

In Bag B, the ratio of red to blue marbles is 4 : 1.

In Bag C, the ratio of red to blue marbles is 3 : 2.

Which bag has the highest proportion of red marbles?

A. All bags have the same proportion.

B. Bag B

C. Bag C

D. Bag A

Q18 Quant

An article is sold at a profit of 32%. If the cost price is increased by ₹20 and the selling price is reduced by ₹42, then the profit would be 27.5%. What is the original cost price (in ₹) of the article?

A. 1,700

B. 1,500

C. 1,800

D. 1,200

Q19 Quant

Three positive numbers are in the ratio 3:5:7. If the sum of their squares is 2075, then the middle number is:

A. 20

B. 30

C. 25

D. 15

Q20 Quant

A trader fixes the marked price of an article at ₹10,630. He sells it to customers for ₹9248.10 after giving certain discount. Find the discount percentage.

A. 12%

B. 14%

C. 13%

D. 9%

Q21 Quant

From the top of a building 20 m high, the angles of depression of the top and the bottom of a tower standing on the same horizontal ground are observed to be 30° and 60° , respectively. The height (in meter) of the tower is:

(Round off your answer to two decimal places.)

A. 12.33 m

B. 13.33 m

C. 13.67 m

D. 12.67 m

Q22 Quant

Simplify: $30 + \{-9 \times (26 - 11 + 3)\}$

A. -135

B. -132

C. -133

D. -134

Q23 Quant

Eight years ago, the age of Mr Gupta was four times that of his nephew, Rohit. After 6 years, Mr Gupta's age will be twice that of Rohit. Find the present age of Mr Gupta.

A. 36 years

B. 42 years

C. 40 years

D. 38 years

Q24 Quant

Pipe A can fill a cistern in 10 hours, pipe B in 15 hours, and pipe C can empty it in 30 hours. All three pipes are opened together. After 6 hours, pipe A is closed, but B and C continue working. How much total time will it take to completely fill the cistern?

A. 10 hours

B. 15 hours

C. 12 hours

D. 20 hours

Q25 Quant

Two taps can fill a cistern in 4 hours and 20 hours, respectively. A third tap can empty it in 20 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

A. 1

B. 3

C. 4

D. 2

Q26 Quant

Simplify: $0.375 + \frac{3}{8} - 0.125$

A. 0.75

B. 0.875

C. 0.5

D. 0.625

Q27 Quant

If the median of the data $\frac{x}{5}, x, \frac{x}{3}, \frac{2x}{3}, \frac{x}{4}, \frac{2x}{5}$ and $\frac{3x}{4}$, where $x > 0$ is 8.4, then find the value of x .

A. 16

B. 21

C. 24

D. 12

Q28 Quant

If $6^x - 6^{x-1} = 180$, then the value of $\frac{2x-1}{2x+3}$ is:

A. A. $\frac{5}{6}$ B. B. $\frac{5}{12}$ C. C. $\frac{5}{9}$ D. D. $\frac{5}{14}$ 

Q29 Quant

ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 14$ cm, $BC = 64$ cm, $DC = 72$ cm, and $AD = 47$ cm, then what is the length (in cm) of EF?

A. 29



B. 31

C. 27

D. 28

Q30 Quant

A solid cylinder of radius R and height H, is melted and recast into three identical cylinders, each having the same height as the original cylinder but half the radius of the original cylinder. What fraction of the original cylinder's volume remains unused?

A. $\frac{1}{4}$



B. $\frac{1}{2}$

C. $\frac{3}{4}$

D. $\frac{2}{3}$



Quant

Q1 Quant

A shopkeeper offers the following schemes on toys of the same marked price.

- (A) Successive discounts of 6% and 39% on any number of toys bought.
 (B) Successive discounts of 48%, 16% and 11% on any number of toys bought.
 (C) 37% discount on the first 2 toys and 29% discount on each toy thereon.
 (D) 2 toys free of cost on buying 4 toys.

A customer wants to buy 4 toys. Which of the above schemes is the least beneficial to her?

A. C B. D C. B D. A

Q2 Quant

A tank is full. Pipes A and B can drain the tank in 10 hours and 15 hours, respectively, while pipe C can fill the tank in 12 hours. Pipes A and B run for 2 hours, after which pipe C is also turned on. How many hours will it take to empty the tank completely?

A. 10 hours B. 6 hours C. 4 hours D. 8 hours

Q3 Quant

A city is planning a new park in the shape of a regular hexagon with each side measuring 10 meters. Which of the following is closest to the area of the park?

A. 173.2 square meters B. 600 square meters C. 150 square meters D. 259.8 square meters

Q4 Quant

Two equal sums of money are lent out for 2 years each, one at 5% per annum simple interest and the other at 7% per annum simple interest. If the difference in simple interest earned on the two sums is ₹40, then what was the principal of each sum (in ₹)?

A. 1,000 B. 800 C. 1,400 D. 1,200

Q5 Quant

A shopkeeper offers a single discount of 30% on a shirt priced at ₹800. Alternatively, he offers two successive discounts of 25% and 5% on the same shirt. What is the difference in the total discount amount between the two offers?

A. ₹16 B. ₹14 C. ₹20 D. ₹10

Q6 Quant

A company has three branches. Branch A has 40 employees with average monthly sales of ₹1,20,000, Branch B has 30 employees with average monthly sales of ₹1,80,000, and Branch C has 30 employees with average monthly sales of ₹1,50,000. What is the average monthly sales per employee of the company (in ₹)?

A. 1,47,000 B. 1,50,000 C. 1,20,000 D. 1,60,000

Q7 Quant

The monthly charges of a hostel consist of a fixed part and a variable part depending on the number of students. For 25 students, the total bill is ₹17,500. For 40 students, the total bill is ₹25,000. What is the total bill for 60 students?

A. ₹30,000 B. ₹37,500 C. ₹32,500 D. ₹35,000

Q8 Quant

A cyclist travels from Town A to Town B, a distance of 78 km, at a speed of 13 km/h. He returns from Town B to Town A at a speed of 26 km/h. What is the total time taken for the round trip, in hours?

- A. 8
- B. 7
- C. 10
- D. 9

**Q13 Quant**

The radius of a spherical balloon is increased by 20%. Find the percentage increase in its surface area.

- A. 44%
- B. 40%
- C. 22%
- D. 20%

**Q14 Quant**

A flagpole stands on top of a building. From a point 25 metres away from the base of the building, the angle of elevation to the top of the flagpole is 60° , and to the top of the building is 30° . What is the height of the flagpole? (Round your answer off to the nearest metre, and use $\sqrt{3}=1.7$)

- A. 35 m
- B. 31 m
- C. 29 m
- D. 30 m

**Q15 Quant**

A and B can do a piece of work in 12 days and 24 days, respectively. Both work for 4 days and then A leaves. How long (in days) will B take to complete the remaining work?

- A. 12
- B. 14
- C. 11
- D. 13

**Q16 Quant**

Of three numbers, the first number is 25 and the third number is 100. If the second number is the mean proportional between the first and the third numbers, find the value of the second number.

- A. 40
- B. 75
- C. 50
- D. 45

**Q9 Quant**

A five-digit number 7549A is divisible by 4 and 3. If it is divided by 12, what will be the remainder?

- A. 1
- B. 2
- C. 4
- D. 0

**Q10 Quant**

20 note books, 100 pens and 50 pencils were bought for ₹3,500. If the average cost of a note book is ₹50 and that of a pencil is ₹10, find the average cost of a pen.

- A. ₹20
- B. ₹25
- C. ₹16
- D. ₹15

**Q11 Quant**

A mixture contains milk and water in the ratio 5:3. If 48 liters of water is added, the ratio becomes 5:5. Find the initial quantity of milk.

- A. 115 liters
- B. 120 liters
- C. 110 liters
- D. 125 liters

**Q12 Quant**

When the cost of an article was decreased by 7%, the number of articles sold was increased by 20%. What was the effect (in percentage) on the revenue?

- A. increase of 10.4%
- B. decrease of 10.6%
- C. increase of 11.6%
- D. decrease of 9.6%



Q17 Quant

During a sale, 50% of the goods are sold at 21% profit, 30% of the remaining goods are sold at 43% profit and the still remaining goods are sold at a loss of 17%. If there is an overall profit of $x\%$, then what is the value of x ?

A. 12

B. 11

C. 10.5

D. 11.5

Q18 Quant

Which of the following numbers are not divisible by 68?

(i) 17350

(ii) 23800

(iii) 28560

(iv) 35350

A. (i) and (ii)

B. (iii) and (iv)

C. (i) and (iv)

D. (ii) and (iii)

Q19 Quant

Evaluate $22^3 + (-6)^3 + (-16)^3$

A. 6127

B. 6147

C. 6336

D. 6099

Q20 Quant

If the ratio of two numbers is 6 : 4, and their HCF is 49, then their LCM is:

A. 294

B. 287

C. 298

D. 295

Q21 Quant

Find the greatest number that will divide 186, 321 and 402 so as to leave the same remainder in each case.

A. 13

B. 23

C. 19

D. 27

Q22 Quant

Priya invested ₹3200 in a bank at a simple interest rate of 12% per annum. If she kept her money in the bank for 5 years, what will be the total interest earned?

A. ₹1940

B. ₹1930

C. ₹1910

D. ₹1920

Q23 Quant

A shopkeeper buys an article for ₹500 and sells it for ₹575. What is the percentage profit?

A. 10%

B. 15%

C. 20%

D. 12.5%

Q24 Quant

A person travels half of a total distance at 30 km/h and the remaining half at 60 km/h. If the total distance is 120 km, how much time does the person take to complete the entire journey?

A. 3 hours

B. 4 hours

C. 5 hours

D. 2.5 hours

Q25 Quant

In a business, P invests ₹2,00,000 for 8 months, Q invests ₹1,50,000 for 9 months and R invests ₹1,20,000 for some complete months. After a year, out of the profit, R gets a higher profit amount than Q but less than P. If R gets ₹72,000 as profit, then the profit of P is ₹_____.

A. 90,000

B. 1,20,000

C. 1,00,000

D. 80,000



Q26 Quant

A club received an income of ₹7,643 from membership fees and ₹2,198 from selling old sports equipment during the year. At the start of the year, ₹1,105 in membership fees was outstanding, and at the end of the year, ₹916 was still outstanding. If the club incurred expenditures of ₹5,287 on sports material and ₹3,120 on maintenance, what is the club's surplus or deficit for the year?

- A. ₹2,613 deficit
- B. ₹2,613 surplus
- C. ₹1,245 surplus
- D. ₹1,975 deficit

Q28 Quant

A triangle has sides of lengths 5 cm, 12 cm, and 13 cm. If a perpendicular is drawn from the vertex opposite the longest side to the longest side, what is the length of the perpendicular? (Rounded off to two decimal places)

- A. 5.37 cm
- B. 4.62 cm
- C. 5.08 cm
- D. 6.51 cm

Q27 Quant

Two sisters, Anika and Riya, have a combined present age of 34 years. Five years ago from now, Anika was twice as old as Riya was then. What is Anika's current age in years?

- A. 18
- B. 21
- C. 20
- D. 23

Q29 Quant

Simplify: $\left\{ \frac{12}{27} \div \frac{12}{2} \right\} \div \left(\frac{1}{11} \times \frac{22}{3} + \frac{5}{9} \right) + \frac{2}{9} \div \frac{33}{22}$ of $\frac{22}{9}$

- A. A. $-\frac{1}{8}$
- B. B. $\frac{9}{23}$
- C. C. $\frac{4}{33}$
- D. D. $\frac{14}{41}$

Q30 Quant

Simplify: $\sqrt{196} - \sqrt{81} + (\sqrt{16})^2$

- A. 5
- B. 7
- C. 21
- D. 14