सत्यमेव जयते

रेलवे भर्ती बोर्ड | RAILWAY RECRUITMENT BOARD

सीईएन ०१/२०२६ सहायक लोको पायलट (एएलपी) के पद पर भर्ती

CEN 01/2026 Recruitment of Assistant Loco Pilot (ALP)

Test Date	03/11/2026
Test Time	12:30 PM - 1:30 PM
Subject	RRB ALP 2026 CBT 1

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : **RRB ALP**

Q.1 **If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 678214, then how many digits will appear more than once in the new number thus formed?**

Ans
✗ A. Three
✓ B. One
✗ C. Two
✗ D. None

Q.2 **P, Q, R, S and T scored different marks. Only two people scored more than S. P scored more than T but less than R. Q scored the highest.**
Who scored the second highest?

Ans
✗ A. S
✗ B. T
✓ C. R
✗ D. P

Q.3 **Which gas is released when dilute hydrochloric acid reacts with sodium carbonate?**

Ans
✓ A. Carbon dioxide is released
✗ B. Hydrogen gas is released
✗ C. Chlorine gas is released
✗ D. Sulfur dioxide is released

Q.4 The sides of a triangle are 10 units, 9 units, and x units. Find the value of the triangle is maximum.

Ans
✗ A. $\sqrt{151}$
✗ B. $\sqrt{171}$
✓ C. $\sqrt{181}$
✗ D. $\sqrt{161}$

Q.5 **The sum of the present ages of Tony and Chris is 20 years. Four years ago from now, Chris's age was half of Tony's then age. How old (in years) is Tony at present?**

Ans

✗ A. 17

✗ B. 5

✗ C. 2

✓ D. 12

Q.6 **Why might a classroom with bare walls and a tiled floor have more reverberation compared to one with carpets and curtains?**

Ans

✗ A. Student noise is amplified by the room

✓ B. Hard surfaces reflect more sound, increasing reverberation

✗ C. Larger rooms always cause more reverberation

✗ D. Thicker walls trap more sound, causing echoes

Q.7 **Eight friends, E, F, G, H, I, J, K and L, are sitting around a circular table, facing the center.**
K sits third to the right of J.
I sits second to the left of L.
F is an immediate neighbor of K and I.
G sits third to the left of H.

What is the position of E with respect to L?

Ans

✗ A. Fourth to the right

✗ B. Second to the right

✓ C. Third to the right

✗ D. Third to the left

Q.8 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

EFG10 FHI12 GJK14 HLM16 ?

Ans

✗ A. IMO18

✗ B. JMO18

✗ C. JNO18

✓ D. INO18

Q.9 **A sound wave has a frequency of 500 Hz and travels at a speed of 340 meters per second. What would the wavelength be if the frequency is reduced to 250 Hz, assuming the speed remains unchanged?**

Ans

✓ A. It is doubled

✗ B. It becomes zero

✗ C. It remains the same

✗ D. It is halved

Q.10 **EHFJ is related to FIGK in a certain way based on the English alphabetical order. In the same way, WZXB is related to XAYC. To which of the following is ADBF related, following the same logic?**

Ans

✓ A. BECG

✗ B. BFBI

✗ C. BEBG

✗ D. BDBG

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Q.11 **If an epithelial tissue is damaged and the underlying tissues become exposed, what is a likely immediate consequence?**

Ans

✔ A. Increased risk of germ entry and infection

✘ B. Increased secretion of hormones

✘ C. Immediate healing of damaged tissue

✘ D. Enhanced absorption of substances

Q.12 **A person travels for some time at 37 km/hr and for the equal time at 58 km/hr. What is the average speed for the entire journey?**

Ans

✘ A. 48 km/hr

✔ B. 47.5 km/hr

✘ C. 42 km/hr

✘ D. 45.5 km/hr

Q.13 **The numbers 27, 18, and 36 form a proportion. What is the fourth proportional?**

Ans

✘ A. 22

✔ B. 24

✘ C. 20

✘ D. 26

Q.14 $PQ \parallel RS$ and AB is the transversal that touches PQ at X and RS at Y

Ans

✘ A. 30°

✘ B. 90°

✘ C. 120°

✔ D. 60°

Q.15 **Let x be a real number and Sin A =** $\frac{x}{\sqrt{x^2+1}}$**, tan B =** $\frac{\sqrt{x^2+2}}{x}$**. If Sec^2 A + Cosec^2 B =** $\frac{85}{36}$**, then what is the value of $32x^4+5$?**

Ans

✘ A. 11

✔ B. 7

✘ C. 9.6

✘ D. 12

Q.16 **A cylindrical pillar is 140 cm in diameter and 50 m in height. Find the cost of painting the curved surface of the pillar at the rate of ₹17 per m^2.**

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

Ans

✘ A. ₹3,761

✘ B. ₹3,786

✘ C. ₹3,697

✔ D. ₹3,740

Q.17 **A sum of ₹10,000 is invested at 10% per annum, for 2 years. What is the difference between the compound interest, compounded annually, and the simple interest earned at the end of 2 years?**

Ans

✔ A. ₹100

✘ B. ₹150

✘ C. ₹200

✘ D. ₹50

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Q.18 **Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

Ans
- ✗ A. NK–GD
- ✗ B. LI–EB
- ✓ C. TQ–LL
- ✗ D. IF–BY

Q.19 **What should come in place of the question mark (?) in the given series?**

35, 39, 47, 59, 75, ?

Ans
- ✗ A. 96
- ✗ B. 94
- ✗ C. 97
- ✓ D. 95

Q.20 **A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.**

Question:
Among 5 sticks, K, S, P, H and T, each having a different height, which stick is the tallest?

Statements:
(I) K is taller than H but shorter than T. K is shorter than only one stick.
(II) H is taller than S.

Ans
- ✓ A. Data in statement I alone is sufficient to answer the question while data in statement II is not.
- ✗ B. Data in both statements I and II together are NOT sufficient to answer the question.
- ✗ C. Data in statement II alone is sufficient to answer the question while data in statement I is not.
- ✗ D. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

Q.21 **The relative strength of the magnetic field is indicated by the degree of _____.**

Ans
- ✗ A. Length of the field lines
- ✗ B. Colour of the filings
- ✗ C. Number of poles involved
- ✓ D. Closeness of the field lines

Q.22 **Seven boxes, C, D, E, F, X, Y and Z, are kept one over the other but not necessarily in the same order. Only three boxes are kept above X. Only one box is kept between F and X. Only three boxes are kept between F and C. C is kept at some place above X. E is kept immediately below C. Z is kept at one of the places above D. Y is not kept immediately above or below F. Which box is kept at the lowermost position?**

Ans
- ✗ A. Y
- ✓ B. D
- ✗ C. C
- ✗ D. X

Q.23 **The species name in binomial nomenclature indicates a group of organisms capable of _____ and producing offspring.**

Ans
- ✓ A. interbreeding
- ✗ B. competing
- ✗ C. hibernating
- ✗ D. migrating

black

Q.24 The position(s) of how many letters will remain unchanged if each letter in the word FORGETS is arranged in the English alphabetical order?

Ans
- ✗ A. 1
- ✗ B. 3
- ✓ C. 0
- ✗ D. 2

Q.25 A tap fills a tank in 6 hours. Another tap empties the full tank in 12 hours. How long (in hours) will it take to fill three-fourths of the tank, if the tank is empty initially and both the taps are opened together?

Ans
- ✗ A. 27
- ✗ B. 36
- ✗ C. 18
- ✓ D. 9

Q.26 Refer to the following letter series and answer the question
(Left) B E H K M Z U X J C A P D F W J I V N U R O Y (Right)

How many such consonants are there each of which is immediately preceded by a vowel and
also immediately followed by a vowel?

Ans
- ✗ A. Two
- ✗ B. Three
- ✗ C. None
- ✓ D. One

Q.27 If $4x + 5y = 174$ and $\frac{3x}{2y} = \frac{12}{11}$, then what is the value of $y^2 - x^2$?

Ans
- ✓ A. 228
- ✗ B. 208
- ✗ C. 168
- ✗ D. 154

Q.28 Given that $75^{0.58} = x$, $75^{0.76} = y$ and $x^z = y^9$, then the value of z is: (Round off to the nearest integer)

Ans
- ✗ A. 14
- ✗ B. 11
- ✗ C. 13
- ✓ D. 12

Q.29 Refer to the following letter series and answer the question
(Left) Y Z T G N K E B A P L O Y U N E O B F V T K S A O D X (Right)
How many letters are there in the English alphabetical series between the letter which is fourth from the right end and fourth from the left end of the series?

Ans
- ✓ A. Five
- ✗ B. Four
- ✗ C. Six
- ✗ D. Three

Q.30 **B, E, G, R, U and V live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. U lives on an odd numbered floor but not 3. The sum of floors on which U and E live is 7. G lives immediately below B. V lives on the top floor. How many people live below B?**

Ans

✗ A. 1

✗ B. 4

✓ C. 3

✗ D. 2

Q.31 **Why do food chains generally consist of only three or four steps?**

Ans

✗ A. Producers cannot make enough food

✓ B. Significant energy loss occurs at each trophic level

✗ C. Herbivores outnumber carnivores

✗ D. Only a few species exist in ecosystems

Q.32 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**
BSP 13, DPR 21, FMT 29, HJV 37, ?

Ans

✗ A. HGY 43

✗ B. GHX 43

✓ C. JGX 45

✗ D. KHW 41

Q.33 **If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of question mark (?) in the following equation?**

1 B 2 D 6 A 2 C 3 = ?

Ans

✗ A. 3

✗ B. 4

✗ C. 5

✓ D. 2

Q.34 **In May 2026, which Kerala-based fabless semiconductor startup launched India's first indigenous AI system-on-chip (SoC) designed for smart surveillance cameras, edge AI boxes, and video gateways?**

Ans

✗ A. InCore Semiconductors

✗ B. Mindgrove Technologies

✗ C. Saankhya Labs

✓ D. Netrasemi

Q.35 **This question is based on the five, three-digit numbers given below.**
(Left) 594 247 578 426 947 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the third digit of the highest number is added to the third digit of the lowest number?

Ans

✗ A. 10

✗ B. 18

✓ C. 14

✗ D. 6

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Q.36 Find the value of

$$\frac{\sqrt{\sec^2 A-1}}{1-\cot A}+\frac{\sqrt{\operatorname{cosec}^2 A-1}}{1-\tan A}-1-\sqrt{\sec^2 A-1}-\sqrt{\operatorname{cosec}^2 A-1}$$

Ans
- ✗ A. tan A
- ✓ B. 4
- ✗ C. tan A + cot A
- ✗ D. 3

Q.37 **18 is related to 325 following a certain logic. Following the same logic, 6 is related to 37. To which of the following is 17 related, following the same logic?**
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
- ✗ A. 291
- ✗ B. 288
- ✗ C. 292
- ✓ D. 290

Q.38 **What should come in place of '?' in the given series?**
235 172 141 126 119 ?

Ans
- ✓ A. 116
- ✗ B. 120
- ✗ C. 121
- ✗ D. 115

Q.39 **Seven people Pihu, Qunur, Rita, Siya, Tina, Umesh and Vivek are sitting around a circular table facing the centre. Umesh sits second to the right of Siya and second to the left of Qunur. Vivek sits third to the left of Qunur. Pihu sits second to the right of Tina. How many people sit between Siya and Tina when counted from the left of Tina?**

Ans
- ✗ A. One
- ✓ B. Two
- ✗ C. None
- ✗ D. Three

Q.40 **AROW is related to HYVD in a certain way based on the English alphabetical order. In the same way, CTQY is related to JAXF. To which of the given options is XOLT related, following the same logic?**

Ans
- ✓ A. EVSA
- ✗ B. EASW
- ✗ C. ESQW
- ✗ D. EXCD

Q.41 **A sum of ₹5,000 is kept in a fixed deposit account for 3 years at a compound interest rate of 6% per annum, compounded half-yearly. What will be the maturity amount (rounded off to the nearest integer)?**

Ans
- ✗ A. ₹6,100
- ✗ B. ₹6,050
- ✗ C. ₹5,940
- ✓ D. ₹5,970

blackbook

Q.42 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) F & R T @ J Y C * S # U K L P $ B M (Right)

How many such letters are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

Ans

✗ A. Three

✗ B. None

✗ C. Two

✓ D. One

Q.43 **Each of L, M, N, O, G, H and I has exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have exam after M. Only one person has exam between O and M. O has exam before M. Only four people have exams between N and O. L has exam on one of the days after O. H has exam on the day immediately before G. How many people have exam between G and L?**

Ans

✓ A. Two

✗ B. One

✗ C. Four

✗ D. Three

Q.44 **In a certain code language, 'GLOW' is coded as '5928' and 'LOWS' is coded as '2894'. What is the code for 'S' in the given code language?**

Ans

✗ A. 2

✗ B. 5

✓ C. 4

✗ D. 9

Q.45 **If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', then what will come in place of the question mark (?) in the following equation?**

25 D 8 B 12 A 6 C 34 = ?

Ans

✗ A. 45

✓ B. 43

✗ C. 44

✗ D. 41

Q.46 **In a certain code language, 'card log data' is coded as 'sw dr ej' and 'royal card ant' is coded as 'dr wq og'. How is 'card' coded in the given language?**

Ans

✓ A. dr

✗ B. sw

✗ C. ej

✗ D. wq

Q.47 **A shopkeeper marks his goods at a certain percentage above cost price. After offering a 15% discount on the marked price, he earns a profit of 5%. What percentage above the cost price did he mark his goods? (Round off the answer to two decimal places.)**

Ans

✗ A. 30.37%

✓ B. 23.53%

✗ C. 17.04%

✗ D. 20.28%

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Q.48 **What should come in place of '?' in the given series?**
6 16 46 136 406 ?

Ans
✗ A. 1218
✓ B. 1216
✗ C. 1214
✗ D. 1220

Q.49 **A company team of 16 members has an average age of 40 years, while another team of 4 members has an average age of 30 years. What is the combined average age of all 20 team members?**

Ans
✗ A. 40 years
✓ B. 38 years
✗ C. 34 years
✗ D. 36 years

Q.50 **Anand, Arvind and Navdeep entered in a partnership and invested in the ratio 8 : 10 : 9. At the end of the business term, they shared their total profit in the ratio 10 : 11 : 15. Find the ratio of time for which they invested.**

Ans
✗ A. 85 : 66 : 100
✓ B. 75 : 66 : 100
✗ C. 75 : 66 : 90
✗ D. 75 : 76 : 100

Q.51 **You want to design a cube-based art sculpture with a total visible surface area of 150 square centimeters. If only three faces of the cube will be visible, what should be the edge length of the cube (in centimeters)?**

Ans
✗ A. $2\sqrt{5}$
✗ B. 5
✓ C. $5\sqrt{2}$
✗ D. $7\sqrt{2}$

Q.52 **What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?**

12 ÷ 14 − 13 + 120 × 5 = ?

Ans
✗ A. 115
✗ B. 189
✓ C. 157
✗ D. 129

Q.53 **A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.**

Question:
Among 5 sticks, E, B, I, C and Q, each having a different height, which stick is the tallest?

Statements:
(I) E is shorter than B but taller than I.
(II) I is taller than C but shorter than Q.

Ans
✗ A. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
✗ B. Data in statement II alone is sufficient to answer the question while data in statement I is not.
✗ C. Data in statement I alone is sufficient to answer the question while data in statement II is not.
✓ D. Data in both statements I and II together are NOT sufficient to answer the question.

Q.54 **Find the median for the following grouped data.**

Class Interval	15-23	23-31	31-39	39-47	47-55
Frequency	3	7	10	6	4

Ans
- ✗ A. 36
- ✓ B. 35
- ✗ C. 28
- ✗ D. 24

Q.55 **In a certain code language, 'GEAR' is coded as '7543' and 'REAP' is coded as '3257'. What is the code for 'P' in the given code language?**

Ans
- ✓ A. 2
- ✗ B. 7
- ✗ C. 4
- ✗ D. 3

Q.56 **The number 16611 is divisible by which of the following numbers?**

Ans
- ✗ A. 54
- ✗ B. 55
- ✓ C. 49
- ✗ D. 42

Q.57 **Each vowel in the word TRASHED is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be third from the left in the new group of letters thus formed?**

Ans
- ✗ A. G
- ✗ B. Q
- ✗ C. R
- ✓ D. B

Q.58 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✗ A. EHK
- ✓ B. FLI
- ✗ C. TWZ
- ✗ D. YBE

Q.59 **Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.**

OLH–LIE
EBX–BYU

Ans
- ✗ A. TPK–QNJ
- ✗ B. TQM–PNI
- ✗ C. TPK–PMI
- ✓ D. TQM–QNJ

Q.60 **Anil starts from Point A and drives 10 km towards East. He then takes a right turn, drives 7 km, turns right and drives 13 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✗ A. 4 km to the South

✗ B. 2 km to the South

✗ C. 3 km to the South

✓ D. 5 km to the South

Q.61 **A shopkeeper blends two varieties of rice priced at ₹50 per kg and ₹70 per kg in the ratio 3:2. If the mixture is sold at ₹66 per kg, what is the profit percentage? (Round off your answer to two decimal places.)**

Ans

✓ A. 13.79%

✗ B. 10.48%

✗ C. 8.23%

✗ D. 15.62%

Q.62 **12 is related to 48 following a certain logic. Following the same logic, 14 is related to 56. To which of the following is 23 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

✗ A. 82

✗ B. 88

✓ C. 92

✗ D. 98

Q.63 **Keshav starts from Point A and drives 13 km towards West. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 16 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified.)**

Ans

✗ A. 4 km to the North

✓ B. 5 km to the South

✗ C. 3 km to the North

✗ D. 4 km to the South

Q.64 **Ethanol oxidises in the presence of hot alkaline $KMnO_4$ to form _____.**

Ans

✗ A. Ethyl acetate

✗ B. Ethanal

✗ C. Acetone

✓ D. Ethanoic acid

Q.65 **A shopkeeper bought six identical mobile phones for ₹75,000. He sold two of them for ₹66,000. What was his gain percentage on the two mobile phones sold?**

Ans

✗ A. 165%

✓ B. 164%

✗ C. 166%

✗ D. 167%

Q.66 **A freelancer spends 72% of his monthly income and saves the rest. If his monthly income is ₹25,000, then how much does he save each month (in ₹)?**

Ans

✗ A. 6,500

✓ B. 7,000

✗ C. 8,000

✗ D. 7,500

Q.67 **This question is based on the following words.**

COX VIE IRE HOD

In each of the words, each vowel is changed to the second letter preceding it in the English alphabetical order and each consonant is changed to the letter immediately following it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans

✓ A. Three

✗ B. Four

✗ C. One

✗ D. Two

Q.68 **Which Article of the Indian Constitution directs the state to promote cottage industries?**

Ans

✗ A. Article 44

✗ B. Article 40

✗ C. Article 48

✓ D. Article 43

Q.69 **Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on first number results in the second number. Similarly, certain mathematical operation on second number results in the third number and so on. Which of the given options follows the same set of operations as in question?**
(NOTE – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)
39 - 273 - 278 - 277
30 - 210 - 215 - 214

Ans

✗ A. 16 - 114 - 121 - 120

✗ B. 1 - 8 - 13 - 14

✗ C. 10 - 82 - 87 - 86

✓ D. 27 - 189 - 194 - 193

Q.70 **This question is based on the following words.**

OAK JOE FED IMP

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter clusters thus formed, will no vowel appear?

Ans

✗ A. Three

✗ B. Two

✓ C. One

✗ D. Four

Q.71 Each letter in the word HARMFUL is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is third from the left and the one which is third from the right in the new letter cluster thus formed?

Ans

✗ A. 7

✗ B. 5

✓ C. 4

✗ D. 3

Q.72 A person invested ₹56,500 at a rate of 6% per annum simple interest for 4 years. Find the amount (in ₹) he will receive after 4 years.

Ans

✓ A. 70,060

✗ B. 72,060

✗ C. 72,600

✗ D. 70,600

Q.73 In a certain code language, 'HVBN' is coded as '46' and 'LAQJ' is coded as '40'. What is the code for 'ITCR' in the given code language?

Ans

✗ A. 41

✗ B. 44

✓ C. 50

✗ D. 56

Q.74 Find the value of $\frac{3.8^4 - 4.9^4}{3.8^2 + 4.9^2}$

Ans

✗ A. -7.56

✗ B. 1.18

✓ C. -9.57

✗ D. 8.75

Q.75 A car's radiator should contain a solution of 62% antifreeze. A motorist has 13 litres of 33% antifreeze. How many litres (rounded off to 2 decimal places) of 97% antifreeze liquid should he add to his solution to produce a 62% antifreeze?

Ans

✗ A. 7.76

✗ B. 14.64

✗ C. 13.29

✓ D. 10.77

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