

BLOGS

Questions on Ratio and Proportion for CLAT 2026

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Q1. Sex ratio is defined as the number of females per 1000 males in the population. Find the sex ratio if there are 4692 females per 6000 males in a town.

- A. 782
- B. 394
- C. 801
- D. 225

Answer: A

Explanation:

Sex ratio = $(4692 / 6000) \times 1000 = 782$.

Q2. Hruthika earns Rs 28,000 per month. Her expenditure amounts to Rs. 17,000 per month. Her friend Shruti earns Rs 36,000 per month. Her expenditure amounts to 19,500 per month. If savings is equal to the expenditure subtracted from the salary, find the ratio between Hruthika's savings and Shruti's salary.

- A. 7:12
- B. 11:36
- C. 17:41
- D. 1:11

Answer: B

Explanation:

Hruthika's savings = $28000 - 17000 = 11000$

Shruti's salary = 36000

Ratio = $11000:36000 = 11:36$

Q3. A clinical trial examines the cholesterol levels of five different groups of participants. The average cholesterol levels for the groups are 200, 210, 190, 220, and 205. If each group consists of 15 participants, what is the overall average cholesterol level for the entire trial?

- A. 78
- B. 300
- C. 450
- D. 205

Answer: D

Explanation:

Total average = $(200 + 210 + 190 + 220 + 205)/5 = 1025/5 = 205$

Q4. A cycling competition has participants in different experience levels. The average experience (in years) for the first level (20 cyclists) is 4 years, for the second level (30 cyclists) is 6 years, and for the third level (50 cyclists) is 10 years. If 10 more cyclists join the third level with an average experience of 12 years, what is the new average experience for all cyclists?

- A. 8
- B. 14
- C. 17
- D. 23

Answer: A

Explanation:

Total experience = $(20 \times 4) + (30 \times 6) + (50 \times 10) + (10 \times 12) = 80 + 180 + 500 + 120 = 880$

Total cyclists = 110

Average = $880 / 110 = 8$

Q5. The cost of a gold nugget varies as the square of its weight. A gold nugget weighing 15 grams costs Rs. 3,375. Find the cost of a gold nugget of the same kind weighing 10 grams.

- A. 1,000
- B. 1,500
- C. 2,000
- D. 2,500

Answer: B

Explanation:

Cost is weight²

$$(10^2)/(15^2) = x/3375 \rightarrow 100/225 = x/3375 \rightarrow x = 3375 \times (100/225) = \text{Rs. } 1500$$

Q6. The ratio of A's salary to B's was 5 : 6. A's salary is increased by 20% and B's by 30%, what is the ratio of their salaries now?

- A. 10:13
- B. 11:17
- C. 18:23
- D. 41:11

Answer: A

Explanation:

Let A = 5x, B = 6x

A new = $5x \times 1.2 = 6x$; B new = $6x \times 1.3 = 7.8x$

Ratio = $6x : 7.8x = 10:13$

Q7. Mukesh owns 1300 shares in a company and decides to gift 18% of them to his wife. In return, his wife Rita, who owns 1600 shares in another company, decides to gift 20% of her shares to Mukesh. What is the percentage difference between the number of shares Rita has given to Mukesh and the number of shares Mukesh has given to Rita?

- A. 23.75% more
- B. 23.75% less
- C. 36.75% more
- D. 36.75% less

Answer: C

Explanation:

Mukesh gives 18% of 1300 = 234 shares

Rita gives 20% of 1600 = 320 shares

Difference = $320 - 234 = 86$

% difference = $(86/234) \times 100 \approx 36.75\%$ more

Q8. Two numbers are 30% and 20% less than a third number respectively. The ratio of the first two numbers is:

- A. 7:8
- B. 15:4
- C. 3:4
- D. 12:31

Answer: A

Explanation:

Let third number = 100

First = 70, Second = 80

Ratio = 70:80 = 7:8

Q9. A class of 40 students took a math test. 25 students had an average score of 85. The other students had an average score of 60. What is the average score of the whole class?

- A. 60
- B. 25
- C. 90
- D. 75

Answer: D

Explanation:

Total score = $(25 \times 85) + (15 \times 60) = 2125 + 900 = 3025$

Average = $3025 / 40 = 75$

Q10. The average marks of a student in 10 papers are 80. If the highest and the lowest scores are not considered, the average is 81. If his highest score is 92, find the lowest.

- A. 56
- B. 60
- C. 66
- D. 70

Answer: B

Explanation:

Total of 10 papers = 800

Total of 8 papers = $81 \times 8 = 648$

Sum of highest and lowest = $800 - 648 = 152$

If highest = 92, then lowest = 60