

BLOGS

## Sectional Test on Quantitative Techniques for CLAT UG [Part 17]

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- 1. The average of 18 numbers is 42. If the average of 10 numbers is 40, find the average of the remaining numbers.**
  - a) 44
  - b) 45
  - c) 46
  - d) 47
  
- 2. A sum amounts to ₹9,600 in 4 years and ₹10,800 in 6 years at simple interest. Find the principal.**
  - a) ₹7,200
  - b) ₹7,800
  - c) ₹8,400
  - d) ₹9,000
  
- 3. The ratio of two numbers is 8 : 11 and their difference is 36. Find the larger number.**
  - a) 108
  - b) 120
  - c) 132
  - d) 144
  
- 4. A train travels 300 km. If the speed were increased by 20 km/h, the journey would take 1 hour less. Find the original speed.**
  - a) 40 km/h
  - b) 50 km/h
  - c) 60 km/h
  - d) 75 km/h
  
- 5. If the cost price of 30 items equals the selling price of 24 items, what is the profit percentage?**

- a) 20%
- b) 25%
- c) 30%
- d) 35%

**6. A number is increased by 30% and then decreased by 10%. What is the net percentage change?**

- a) 17% increase
- b) 20% increase
- c) 15% increase
- d) 18% increase

**7. A bag contains 7 red, 5 blue and 8 green balls. What is the probability of drawing a green ball?**

- a)  $\frac{2}{5}$
- b)  $\frac{4}{10}$
- c)  $\frac{3}{10}$
- d)  $\frac{8}{20}$

**8. A mixture of milk and water is in the ratio 6 : 5. If 11 litres of water are added, the ratio becomes 6 : 7. Find the original quantity of the mixture.**

- a) 44 L
- b) 55 L
- c) 66 L
- d) 77 L

**9. Two numbers are in the ratio 5 : 8 and their sum is 169. Find the smaller number.**

- a) 55
- b) 60
- c) 65
- d) 70

**10. A boat travels 40 km downstream in 4 hours and the same distance upstream in 5 hours. Find the speed of the stream.**

- a) 1 km/h
- b) 2 km/h

- c) 3 km/h
- d) 4 km/h

**11. The side of a square is increased by 25%. By what percentage does the area increase?**

- a) 50%
- b) 56.25%
- c) 60%
- d) 62.5%

**12. The average of 16 numbers is 24. If four numbers with average 18 are removed, find the average of the remaining numbers.**

- a) 25
- b) 26
- c) 27
- d) 28

**13. A man spends 75% of his income. If his savings are ₹6,000, what is his income?**

- a) ₹18,000
- b) ₹20,000
- c) ₹24,000
- d) ₹30,000

**14. If the radius of a circle increases by 10%, by what percentage does the area increase?**

- a) 20%
- b) 21%
- c) 22%
- d) 25%

**15. The present ages of A and B are in the ratio 6 : 7. After 8 years, the ratio becomes 7 : 8. Find A's present age.**

- a) 36
- b) 42
- c) 48
- d) 54

## Answers

1. Correct Answer: B Total =  $18 \times 42 = 756$  First 10 =  $10 \times 40 = 400$  Remaining =  $356$  Average =  $356/8 = 45$
2. Correct Answer: A Difference =  $10800 - 9600 = 1200$  (2 yrs interest) 1 yr SI = 600 Principal =  $9600 - (4 \times 600) = ₹7200$
3. Correct Answer: C Difference = 3 parts = 36 1 part = 12 Larger =  $11 \times 12 = 132$
4. Correct Answer: C Let speed = x  $300/x - 300/(x+20) = 1$  x = 60 km/h
5. Correct Answer: B CP of 30 = SP of 24 CP/SP =  $24/30 = \frac{4}{5}$  Profit = 25%
6. Correct Answer: A  $100 \times 1.30 = 130$   $130 \times 0.90 = 117$  Increase =  $(130-117) \times 100 = 17\%$  increase
7. Correct Answer: A Green = 8 Total = 20 Probability =  $8/20 = \frac{2}{5}$
8. Correct Answer: B Water increase = 2 parts = 11 L 1 part = 5.5 Total parts = 11 Mixture =  $11 \times 5 = 55$  L
9. Correct Answer: C Total parts = 13 1 part =  $169/13 = 13$  Smaller =  $5 \times 13 = 65$
10. Correct Answer: A Downstream =  $40/4 = 10$  Upstream =  $40/5 = 8$  Stream =  $(10-8)/2 = 1$  km/h
11. Correct Answer: B Area factor =  $(1.25)^2 = 1.5625$  Increase = 56.25%
12. Correct Answer: B Total =  $16 \times 24 = 384$  Removed =  $4 \times 18 = 72$  Remaining = 312 Average =  $312/12 = 26$
13. Correct Answer: C Savings = 25% 25% = 6000 Income =  $6000 \times 4 = ₹24,000$
14. Correct Answer: B Area  $\propto r^2$   $(1.1)^2 = 1.21$  Increase = 21%
15. Correct Answer: C Let ages = 6x, 7  $(6x+8)/(7x+8) = \frac{7}{8}$  x = 8 A =  $6 \times 8 = 48$