IBSAT 2025 Quant Section Practice Set with Solution PDF

1. Find the value: 15% of 480.

Solution: 0.15 × 480 = 72

2. A number increased by 20% becomes 360. What is the original number?

Solution: Let original = x

1.2x = 360 ⇒ x = 300

3. A man travels 30 km at 10 km/h and returns at 15 km/h. Find the average speed.

Solution: Average speed = 2xy / x+y = 2 X 10 X 15 / 25 = 12km/h

4. Find CI on ₹5000 at 10% for 2 years.

Solution: CI = 5000 $(1.1^2 – 1)$ = 5000(1.21 – 1) = 1050

5. Ratio of A and B's ages is 4:5. If A is 24, find B's age.

Solution: 24/4 = 6 → B = 5×6 = 30 years

6. The average of 7 numbers is 25. What is their total?

Solution: Total = 25 × 7 = 175

7. What is the simple interest on Rs 5000 at 8% for 2 years?

Solution: SI = PTR/100 = 5000 × 8 × 2/100 = Rs 800

8. Value of $(a + b)^2$ when a=3, b=4?

Solution: $(3+4)^2 = 49$

9. The perimeter of a square is 40 cm. Find the area.

Solution: Side = 40/4 = 10

Area = 100 cm^2

10. Radius of a circle = 7 cm. Find the area.

Solution: Area = πr^2 = 22/7 × 49 = 154 cm^2

11. A shopkeeper marks an item at ₹800 and gives a 20% discount. Find SP.

Solution: SP = 800 × 0.8 = Rs 640

12. A sum becomes ₹9,680 after 2 years at 10% CI. Find principal.\

Solution: $A = P(1.1)^2 = 1.21P$

$9680 = 1.21P \rightarrow P$ = Rs 8000

13. If $3x – 5 = 16$, find x.

Solution: $3x = 21 \rightarrow x = 7$

14. If the average of 12 numbers is 14 and the average of 8 numbers is 18, find the combined average.

Solution: Sum1 = 12×14 = 168
Sum2 = 8×18 = 144
Combined sum = 312
Combined average = 312/20 = 15.6

15. A rectangle's length = 12 cm, breadth = 9 cm. Find the diagonal.

Solution: Diagonal = $\sqrt{(12^2 + 9^2)}$
= $\sqrt{(144 + 81)} = \sqrt{225}$ = 15 cm