



Class 9 Mathematics | How Quantities Combine: Understanding Data

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The mean of 4, 6, 8 and 10 is:

A. 28 B. 7 C. 6 D. 8

2. A group of 10 students has mean score 60; 20 others have mean 75. Combined mean is:

A. 67.5 B. 70 C. 72 D. 65

3. A student scores 80 in a test weighted 40% and 60 in one weighted 60%. Weighted score is:

A. 64 B. 68 C. 72 D. 70

4. Mix 2 kg rice at ₹40/kg and 3 kg at ₹60/kg. Mean cost per kg is:

A. ₹50 B. ₹52 C. ₹54 D. ₹48

5. Two classes of equal size have means 54 and 66. Their combined mean is:

A. 63 B. 57 C. 60 D. 120

6. A 200 g solution is 10% salt. Salt mass is:

A. 20 g B. 2 g C. 10 g D. 40 g

7. Mix 100 g of 20% salt solution with 300 g of 10% solution. Salt percentage is:

A. 12.5% B. 15% C. 17.5% D. 30%

8. Add 100 g pure water to 100 g of a 20% salt solution. New concentration is:

A. 10% B. 40% C. 5% D. 20%

9. A mean of 12 observations is 15. Their total is:

A. 3 B. 180 C. 27 D. 150

10. Five values have mean 8. A sixth value 14 is added. New mean is:

A. 11 B. 8 C. 10 D. 9

11. Positive-weight average of 30 and 50 must lie:

A. above 50 B. between 30 and 50
C. below 30 D. always at 40

12. A class has 12 girls averaging 70 and 8 boys averaging 60. Class mean is:

A. 68 B. 64 C. 65 D. 66

13. Two groups have means 10 and 20. Combined mean 18 implies the larger group is:

A. the group with mean 20
B. the group with mean 10
C. impossible to determine
D. both equal in size

14. A stacked bar shows 18 walkers, 12 cyclists and 20 bus users. Total students are:

A. 38 B. 32 C. 30 D. 50

15. In a 100% stacked bar, a segment occupies one quarter of the bar. It represents:

A. 75% B. 20% C. 25% D. 40%

ANSWER KEY — check after completing all 15 questions

1.B 2.B 3.B 4.B 5.C 6.A 7.A 8.A 9.B 10.D 11.B 12.D 13.A 14.D 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper

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