

## Test Paper 5 Solutions

Code: 2026/DataHandling/C7/05

1. The first five multiples of 3 are 3, 6, 9, 12, 15. Mean:

$$\frac{3 + 6 + 9 + 12 + 15}{5} = \frac{45}{5} = 9$$

2. Arrange the data in ascending order: 41, 43, 57, 58, 61, 71, 92, 99, 127. The median is the middle value:

$$\text{Median} = 61$$

3. For 15 to be the mode, it must appear more frequently than any other number. Therefore,  $x = 15$ .

4. Savings:

$$\frac{36^\circ}{360^\circ} \times 50,000 = 5,000$$

5. Total of 7 observations:

$$7 \times 8 = 56$$

Total of 8 observations:

$$56 + 16 = 72$$

New mean:

$$\frac{72}{8} = 9$$

6. Total balls:  $3 + 2 + 5 = 10$ . Probability of not picking a red ball:

$$\frac{7}{10}$$

7. Range:

$$21 - 4 = 17$$

8. None of the given options are universally true.

9. The space between bars must be equal.

10. The first 10 even natural numbers are 2, 4, 6, 8, 10, 12, 14, 16, 18, 20. Mean:

$$\frac{2 + 4 + 6 + 8 + 10 + 12 + 14 + 16 + 18 + 20}{10} = \frac{110}{10} = 11$$

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11. The sum of deviations from the mean is always zero. 0

12. Sector angle:

$$0.5 \times 360^\circ = 180^\circ$$

180

13. The median of an even number of observations is the average of the two middle values:

$$\frac{6 + 8}{2} = 7$$

7

14. Probability of getting 7 on a standard die is 0. 0

15. Total of 6 observations:

$$6 \times 7 = 42$$

Sum of known observations:

$$4 + 7 + 2 + 8 = 21$$

Therefore:

$$x + y = 42 - 21 = 21$$

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