

Test Paper 4 Solutions

Code: 2026/DataHandling/C7/04

- Given the mean of the numbers is 14:

$$\frac{11 + 15 + 17 + (y + 1) + 19 + (y - 2)}{6} = 14$$

$$61 + 2y = 84 \implies 2y = 23 \implies y = 11.5$$

Since 11.5 is not an option, recheck the calculation:

$$11 + 15 + 17 + y + 1 + 19 + y - 2 = 60 + 2y$$

$$\frac{60 + 2y}{6} = 14 \implies 60 + 2y = 84 \implies 2y = 24 \implies y = 12$$

12

- The mode is the most frequently occurring value, which is 15. **15**

- Arrange the terms in ascending order: $\frac{x}{5}, \frac{x}{4}, \frac{x}{3}, \frac{x}{2}, x$. The median is the middle value:

$$\frac{x}{3} = 8 \implies x = 24$$

24

- Central angle:

$$\frac{15}{60} \times 360^\circ = 90^\circ$$

90

- Prime numbers on a dice: 2, 3, 5. Probability:

$$\frac{3}{6} = \frac{1}{2}$$

$\frac{1}{2}$

- The number of observations n :

$$n = \frac{\sum x}{\bar{x}}$$

$\frac{\sum x}{\bar{x}}$

- The tally mark  represents 7. **7**

- The first 10 whole numbers are 0, 1, 2, ..., 9. Range:

$$9 - 0 = 9$$

9

9. The measure used to divide a data set into two equal halves is the median. Median

10. Percentage:

$$\frac{72^\circ}{360^\circ} \times 100 = 20\%$$

20%

11. Mean:

$$\frac{\frac{1}{2} + \frac{1}{4} + \frac{1}{4}}{3} = \frac{\frac{1}{2} + \frac{1}{2}}{3} = \frac{1}{3}$$

1
3

12. If a data set has two modes, it is called bimodal. Bimodal

13. A bar of height 7.2 units represents:

$$7.2 \times 100 = 720$$

720

14. The probability of a "Sure Event" is 1. 1

15. Sum of observations:

$$5 \times 10 = 50$$

50