Test Paper 3 Solutions

Code: 2026/DataHandling/C7/03

1. Given the mean of the numbers is 7:

$$\frac{6 + 8 + 5 + 7 + x + 4}{6} = 7$$

$$30 + x = 42 \implies x = 12$$

$\boxed{12}$

2. The best representative value for "most popular shoe size" is the mode. $\boxed{\text{Mode}}$

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

$$\text{Median} = \frac{14 + 16}{2} = 15$$

$\boxed{15}$

4. Fraction of the total income spent on Rent:

$$\frac{120°}{360°} = \frac{1}{3}$$

$\boxed{\dfrac{1}{3}}$

5. Probability of getting a Tail:

$$\frac{100 - 45}{100} = \frac{55}{100} = 0.55$$

$\boxed{0.55}$

6. Range is the difference between the highest and lowest values:

$$8.9 - 1.1 = 7.8$$

$\boxed{7.8}$

7. A bar of 4.5 cm represents:

$$4.5 \times 10 = 45 \text{ units}$$

$\boxed{45}$

8. The first five odd natural numbers are 1, 3, 5, 7, 9. Mean:

$$\frac{1 + 3 + 5 + 7 + 9}{5} = \frac{25}{5} = 5$$

$\boxed{5}$

9. The mode is the most frequently occurring value, which is 3. $\boxed{3}$

10. Mean of 2a, 2b, 2c:

$$\frac{2a + 2b + 2c}{3} = 2 \times \frac{a + b + c}{3} = 2M$$

$\boxed{2M}$

11. Probability cannot be greater than 1. $\boxed{1.5}$

12. Finding the middle-most value after sorting data is calculating the median. $\boxed{\text{Median}}$

13. Amount spent on food:
$$\frac{90°}{360°} \times 36,000 = 9,000$$

$\boxed{9,000}$

14. Mean:
$$\frac{0 + 0 + 0 + 1 + 4}{5} = \frac{5}{5} = 1$$

$\boxed{1}$

15. Representation of data using pictures is a pictograph. $\boxed{\text{Pictograph}}$