

- 11 (b) 13°C $\left[\begin{array}{l} \text{range} = HV - LV \\ = 5 - (-8) \\ = 13^{\circ}\text{C} \end{array} \right]$
- 12 (c) $\frac{1}{5}$ $\left[\begin{array}{l} \text{no. of blue buttons} = 4 \\ \text{total buttons} = 4 + 7 + 3 + 6 \\ P(\text{blue button}) = \frac{4}{20} = \frac{1}{5} \end{array} \right]$
- 13 (d) iv $\left[\begin{array}{l} \text{no equal parts} \\ \text{of each colour} = 2 \end{array} \right]$
- 14 (d) 30 $\left[\begin{array}{l} 0-10, 10-20, 20-30, \textcircled{30-40} \\ \text{lower limit} \end{array} \right]$
- 15 (b) $\frac{3}{5}$ $\left[P(\text{head}) = \frac{120}{200} = \frac{3}{5} \right]$
- 16 (c) 144° $\left[\begin{array}{l} \text{central angle} = \frac{4\%}{100} \times 360 \\ = 144^{\circ} \end{array} \right]$
- 17 (b) Rs 2500 $\left[\begin{array}{l} C.A = \frac{x}{125} \times 360 \\ 60 = \frac{3x}{125} \Rightarrow x = \frac{60 \times 125}{3} \\ = 2500 \end{array} \right]$
- 18 (a) 108° $\left[\begin{array}{l} \text{central} \\ \text{angle} = \frac{3\%}{100} \times 360 \\ = 108^{\circ} \end{array} \right]$
- 19 (a) $\frac{2}{5}$ $\left[\begin{array}{l} \text{cards with no. 2} = 2 \\ \text{total cards} = 5 \\ P(2) = \frac{2}{5} \end{array} \right]$
- 20 (d) 2:1 $\left[\begin{array}{l} \text{required ratio} = \frac{1}{3} : \frac{1}{6} \\ = \frac{2}{6} : \frac{1}{6} \\ = 2 : 1 \end{array} \right]$
- 21 (d) 96° $\left[\begin{array}{l} \text{required angle} \\ = \frac{\frac{1}{10} + \frac{1}{6}}{1} \times 360 = \frac{8}{30} \times 360 \\ = 96^{\circ} \end{array} \right]$
- 22 (b) 144° $\left[\begin{array}{l} \text{required angle} = \frac{1 - \frac{1}{3} - \frac{1}{10} - \frac{1}{6}}{1} \times 360 \\ = \frac{12}{30} \times 360 = 144^{\circ} \end{array} \right]$