



Exercise 15A

Question 4:

Total number of trials = 300

In a random throw of a die let E_1 , E_2 , E_3 , and E_4 be the events of 3, 6, 5, and 1 respectively. Then;

$$\begin{aligned} \text{(i) } P(\text{getting 3}) &= P(E_1) = \frac{\text{numbers of times 3 appeared}}{\text{total number of trials}} \\ &= \frac{54}{300} \\ &= 0.18 \end{aligned}$$

$$\begin{aligned} \text{(ii) } P(\text{getting 6}) &= P(E_2) = \frac{\text{numbers of times 6 appeared}}{\text{total number of trials}} \\ &= \frac{33}{300} \\ &= 0.11 \end{aligned}$$

$$\begin{aligned} \text{(iii) } P(\text{getting 5}) &= P(E_3) = \frac{\text{numbers of times 5 appeared}}{\text{total number of trials}} \\ &= \frac{39}{300} \\ &= 0.13 \end{aligned}$$

$$\begin{aligned} \text{(iv) } P(\text{getting 1}) &= P(E_4) = \frac{\text{numbers of times 2 head appeared}}{\text{total number of trials}} \\ &= \frac{60}{300} \\ &= 0.2 \end{aligned}$$

Question 5:

The number of ladies = 200

Number of ladies who like coffee = 142

Number of ladies who do not like coffee = 58

Let E_1 = event that the selected lady likes coffee.

$$\therefore P(E_1) = \frac{\text{numbers of ladies who like coffee}}{\text{total number of trials}} = \frac{142}{200} = 0.71$$

Let (E_2) = event that the selected lady dislikes coffee. Then

$$\therefore P(E_2) = \frac{\text{numbers of ladies who dislike coffee}}{\text{total number of trials}} = \frac{58}{200} = 0.29$$

***** END *****