

Exercise 15A

Question 3:

Total number of trials=200

Number of times 3 heads appeared=39

Number of times 2 heads appeared = 58

Number of times 1 head appeared =67

Number of times 0 head appeared=36

The random toss of 3 coins , Let E1, E2, E3 and E4 be the events of getting 3 heads , 1 head and 0 head and 2 heads respectively . Then;

(i) P(getting 3 heads)=P(E₁)=
numbers of times 3 head appeared
total number of trials

$$= \frac{39}{200} = 0.195$$

(ii) P (getting 1 head)= P(E₂)= numbers of times 1 head appeared total number of trials

$$= \frac{67}{200} = 0.335$$

(iii) P(getting 0head)= P(E₃)= numbers of times 0 head appeared

total number of trials

$$= \frac{36}{200} = 0.18$$

(iii) P(getting 2heads)= $P(E_4)$ = numbers of times 2head appeared

total number of trials

$$= \frac{58}{200} = 0.29$$

******* END *******