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Exercise 15A

Question 1:

Total numbers of trials = 500

Numbers of heads = 285

Numbers of tails = 215

(i) Let E be the event of getting a head

 $\therefore P(\text{getting ahead }) = P(E) = \frac{\text{numbers of heads coming up}}{\text{totalnumber of trials}}$

$$=\frac{285}{500}=0.57$$

(ii) Let F be the event of getting a tail

∴ P (getting a tail)=P(F)=
$$\frac{\text{numbersof tailscomingup}}{\text{total number of trials}}$$
$$= \frac{215}{500}$$
$$= 0.43$$

Question 2:

Total numbers of trials =400

Numbers of times 2 head appears=112

Number of times 1 head appears = 160

Number of times 0 head appears= 128

In a random toss of two coins , Let E_1 , E_2 , E_3 , be the events of P(getting 2 heads)

$$=P(E_1) = \frac{\text{numbers of times 2 heads appear}}{\text{total number of trials}} = \frac{112}{400} = 0.28$$

 $P(getting 1 head) = P(E_2) =$

$$\frac{\text{numbers of times 1 head appears}}{\text{total number of trials}} = \frac{160}{400} = 0.4$$

 $P(getting \ 0 \ head) = P(E_3) =$

$$\frac{\text{numbers of times 0 head appears}}{\text{total number of trials}} = \frac{128}{400} = 0.32$$

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