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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

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

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

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

$$\therefore \quad \text{P (getting a tail)=P(F)=} \frac{\text{numbersof tailscomingup}}{\text{totalnumber of trials}}$$

$$= \frac{215}{500}$$

$$=0.43$$

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)

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

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 **********