

Assignment 4

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I. PROBLEM-CBSE-9TH Q)EXAMPLE 2

Q)Two coins are tossed simultaneously 500 times, and we get

Two heads : 105 times

One head : 275 times

No head : 120 times

Find the probability of occurrence of each of these events.

II. SOLUTION

Let us denote the event of getting two heads, one head and no head by E_1 , E_2 and E_3 respectively. So,

$$P(E_1) = \frac{105}{500} = 0.21 \quad (1)$$

$$P(E_2) = \frac{275}{500} = 0.55 \quad (2)$$

$$P(E_3) = \frac{120}{500} = 0.24 \quad (3)$$

Observe that $P(E_1) + P(E_2) + P(E_3) = 1$. Also E_1 , E_2 and E_3 cover all the outcomes of a trial.