

Chapter 23: Probability

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Exercise 23

Question 1:

Solution:

- (i) Since a head occurs 136 times out of 300 times, the probability of getting a head is $\frac{136}{300} = \frac{34}{75}$.
- (ii) Since a tail occurs 164 out of 300 times, the probability of getting a tail is $\frac{164}{300} = \frac{41}{75}$.

Question 2:

Solution:

- (i) 2 heads occurs 58 times out of 200 times so the probability of getting 2 heads is $\frac{58}{200} = \frac{29}{100}$.
- (ii) 1 head occurs 83 times out of 200 times so the probability of getting 1 head is $\frac{83}{200}$.
- (iii) 0 head occurs 59 times out of 200 times so the probability of getting 0 head is $\frac{59}{200}$.

Question 3:

Solution:

- (i) The probability of getting a 3 is $\frac{18}{100} = \frac{9}{50}$.
- (ii) The probability of getting a 6 is $\frac{9}{100}$.
- (iii) The probability of getting a 4 is $\frac{15}{100} = \frac{3}{20}$.
- (iv) The probability of getting a 1 is $\frac{21}{100}$.

Question 4:

Solution:

- (i) The probability that the chosen lady likes coffee is $\frac{36}{100} = \frac{9}{25}$.
- (ii) The probability that the chosen lady dislikes coffee is $\frac{64}{100} = \frac{16}{25}$.