

Exercise VSAQs

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Question 1: Define a trial.

Solution: When we perform an experiment it is called a trial of the experiment. Whereas, an operation which can produce some well-defined outcomes is called an experiment.
For example, we have 6 possible outcomes while rolling a die.

Question 2: Define an elementary event.

Solution: An outcome of a trial of an experiment is an elementary event.

Question 3: Define an event.

Solution: A subset of the sample space is called an event.

For Example: In the experiment of tossing a coin:

Event E = the event of getting a head

Event F = the event of getting a tail

Question 4: Define Probability of an Event.

Solution: Suppose an event E can happen in m ways out of a total of n possible equally likely ways.

Then, the probability of occurrence of the event = $P(E) = m/n$