Weekly School grade 9 2nd week (October) (24) probability

Charactaristics of a random experiment

- The experiment can be repeted any number of times.
- All the possible outcomes of the experiment are known before the experiment is carried out.
- The outcome of the experiment cannot be stated with certainty before the experiment carried out.
- When the experiment is repeated, a pattern cannot be recognized in the outcomes.
- All the set of possible outcomes of a random experiment is called its sample space (S)

Example -: Rolling a cube die which is marked from 1 to 6

Here, n(S) = 6

Do the exercises 24.1 and 24.2 in your text book

- An event is a subset of the sample space of a random Experiment.
- When the sample space of the random experiment is considered, if each outcome is equally likely to occur, then that experiment is called an experiment is called an experiment with <u>equally likely</u>

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probability of a	1
selected outcome	total number of outcome in the sample space



example -: Drawing a card an at random from the box recording the number from 1 to 10

i. Write the sample space

ii. The event Being an add number is B, write the Set B and find the probability of drawing a card with an add number

$$B = \{1,3,5,7,9\}$$

P(B) = n(B) = 5 = 1
n(S) 10 2