

3055 BA SANGAM COLLEGE

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WORKSHEET 24

SCHOOL: BA SANGAM COLLEGE YEAR: 10

SUBJECT: MATHEMATICS NAMEOF STUDENT: _____

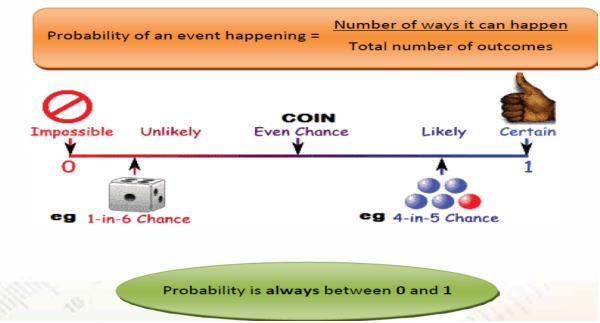
STRAND	6- PROBABILITY
SUB-STRAND	6.4 Probability Experiment
LEARNING	To learn and calculate probability of any event
OUTCOME	using real life examples

DEFINITIONS

- i. **Probability** is the chance or likely hood of an event will occur. It can be written as a ratio, fraction, decimal or as a percentage.
- ii. <u>Event</u> An event in probability is the set of a group of different outcomes of an experiment. Suppose you flip a coin multiple times, an example of an event would the getting a certain number of heads
- iii. **Experiment** is a trial or a test to see what happens eg, to flip a coin to see whether you get head or a tail.
- iv. **Outcomes** all the possible results of an experiment.
- v. <u>Sample Space (S)</u> a list of all possible outcomes in an experiment. example If you flipped a coin once, the sample space S would be given by: S = (H, T)
- vi. **Random Event** something that will happen.
- vii. **Randomly Selected** picking/selecting without planning or seeing.
- viii. **Certain** an event that had more than 50% chance of occurring.
- ix. **Likely** an event that has more chances of happening.

FINDING PROBABILITY

The highest probability an event can have is 1 or 100% and it means that the event will certainly happen. The lowest probability is 0% meaning that the event is certainly not going to happen.



From above it can be seen that:

- 1. the probability of rolling a zero in a die is **impossible** so the probability is 0
- 2. the chance of getting a head or a tail is **equal or even**. So, the probability is 50% or 0.5 to get either head or tail
- 3. The chance of picking a blue ball from the pile is likely. So, the probability is 4/5

EXERCISE

- 1. Which of these can you be certain of? Why?
- i. Your height
- ii. Cost of your fare to school
- iii. Exact time of arrival of your school bus

(1mark)

- 2. Write the following probabilities as percentages:
- i. 0.35
- ii. 2/3
- iii. 1 out of 5

(3marks)

- 3. List the sample space for:
- i. Throwing a single die

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ii. Throwing two dice	(2marks)
	(2marks)
iii Tossing a coin.	
	(2marks)
iv) tossing two coins at a time.	
	(2marks)