LEARNING AS ONE NATION
Expanded Project

Math 10_38

JHS LEARNING ACTIVITY

Name: _____ **Grade/Score:** _____
Grade and Section: _____ **Date:** _____

Subject *(Check or choose from below.)*

- ☐ Religion/Values Education
- ☐ Natural Sciences
- ☐ Araling Panlipunan
- ☐ Filipino
- ☐ English
- ☐ Math
- ☐ TLE / ICT
- ☐ MAPEH
- ☐ HGP _____

Type of Activity *(Check or choose from below.)*_____

- ☐ Concept Notes
- ☐ Skills: Exercise / Drill
- ☐ Performance Task
- ☐ Illustration
- ☐ Formal Theme
- ☐ Informal Theme
- ☐ Others: _____

Activity Title: Events in a Probability Experiment

Learning Target: To define important terms and give examples in a probability experiment.

References: *(Author, Title, Pages)*
F.B. Orines, et al., Next Century Mathematics, p. 418
V.J.A. Dublin V.G. Baja, CVIF Learning Activities

Here we shall study probability experiments and their outcomes. They are called probability experiments because we cannot be sure of what the outcome will be. This is because the process is random or happening by chance. We can only talk about a "probable" or possible outcome.

Definition:

A sample space is the set of all possible outcomes of a probability experiment. It is usually denoted using set notation and the possible results are listed as elements of a set.

An event is a subset of a sample space. It is a possible outcome that you can get.

Examples:

a) Flipping a coin once

The sample space is $S = \{\text{Head, Tail}\}$

An event is $E = \{\text{Head}\}$

b) Rolling a fair die

The sample space is $S = \{1, 2, 3, 4, 5, 6\}$

An event is $E = \{1\}$

Exercises:

Give the sample space of the following experiments. Then give one event for each sample space.

1) Answering a true or false question.
2) Randomly picking an odd number between 2 and 10.
3) Randomly picking an even number between 1 and 9.