LEARNING AS ONE NATION
Expanded Project

Math 10_39

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: The Probability of an Event

Learning Target: To determine the probability of an event.

References: *(Author, Title, Pages)*
http://www.onlinemathlearning.com/probability-of-an-event.html
(Accessed December 2015)
V.G Baja and M.V. Bernido, CVIF Learning Activities

From the previous lesson, we learned that an **event** is an occurrence or a set of outcomes in a random activity or statistical experiment. We can calculate a corresponding probability for the event. The probability of an event A, which we denote by P(A), "*P of A*" is given by:

$$P(A) = \frac{The\ number\ of\ outcomes\ where\ A\ occurs}{Total\ number\ of\ equally\ likely\ outcomes} = \frac{n(A)}{n(T)}$$

Example:

Each of the letters in the word PROMISES is written with one letter on one card. All eight cards are placed in a box. The box is shaken, and a card is picked out randomly, without looking and choosing. What is the probability of getting the letter "S"?

Solution:

Each of the cards has the same chance of being selected.

Sample Space: T= {P, R, O, M, I, S, E, S}

Event: A= obtaining letter 'S' = $\{S_1, S_2\}$ since there are 2 S's

Thus, $P(A) = \frac{n(A)}{n(T)} = \frac{2}{8} = \frac{1}{4}$.

Exercises:

1) Pedro shakes a box that has 5 red, 8 green, 6 blue, and 5 yellow marbles. If he picks a single marble from the box without looking and choosing, what is the probability of getting one blue marble?
2) Alexa has 10 coins in her savings box. She has three ₱1.00, two ₱10.00, four ₱5.00, and one 25-cent coins in the box. If she shakes the box and a single coin comes out, what is the probability that the coin is a ₱1.00 coin?