5

Learning Activity Sheet for Mathematics 5

Quarter 3

Lesson
4

Learning Activity Sheet for Mathematics Grade 5
Quarter 3: Lesson 4
SY 2025-2026

Learning Area:	Mathematics 5	**Quarter:**	3rd Quarter
Lesson No.:		**Date:**	
Lesson Title/ Topic:	**Theoretical Probability**		
Name:		**Grade & Section:**	

I. Activity 1: Calculating Theoretical Probability

II. Objective(s):

a. Calculate the theoretical probability of a simple event by listing all possible outcomes.

III. Materials Needed:

Paper, Pencil or Pen

IV. Instructions:

A. Calculate the theoretical probability of the following event to occur by listing all possible outcomes. (4 points each)

1. Getting an odd number in rolling a fair dice. All possible outcomes: Favorable Outcomes: Probability of the event (P(e)):	2. Getting an even number that is higher than 3 in rolling a fair dice. All possible outcomes: Favorable Outcomes: Probability of the event (P(e)):
3. Getting a letter that comes after R in drawing a card from a deck of alphabet cards. All possible outcomes: Favorable Outcomes:	4. Getting a number that is a multiple of 4 in a deck of number cards with numbers 1 to 20. All possible outcomes: Favorable Outcomes:

Probability of the event (P(e)):	Probability of the event (P(e)):
5. Getting a blue-coated chocolate from a pack containing 5 orange-, 5 yellow-, and 4 blue-coated chocolates. All possible outcomes: Favorable Outcomes: Probability of the event (P(e)):	

B. LOTTO 6/42. Find the theoretical probability of the following events. Always reduce your answers in lowest term.

The first national lottery game in the Philippines is Lotto 6/42. In this lottery, the player will choose a 6-number combination from numbers 1 to 42. During the first draw, find the probability of: (4 points each)

1. Getting a number 22. All possible outcomes: Favorable Outcomes: Probability of the event (P(e)):	2. Getting an even number from 5 to 20. All possible outcomes: Favorable Outcomes: Probability of the event (P(e)):
3. Getting a number that is divisible by 5.	4. Getting a number that is higher than 30.

All possible outcomes:	All possible outcomes:
Favorable Outcomes:	Favorable Outcomes:
Probability of the event (P(e)):	Probability of the event (P(e)):

5. Getting a number that is odd and are higher than 20?

All possible outcomes:

Favorable Outcomes:

Probability of the event (P(e)):

Learning Area:	Mathematics 5		Quarter:	3rd Quarter
Lesson No.:			Date:	
Lesson Title/ Topic:	**Theoretical Probability**			
Name:			Grade & Section:	

I. Activity 2: Determining the Chance of an Event using the Level of Certainty

II. Objective(s):
   a. Calculate the theoretical probability of a simple event by listing all possible outcomes.

III. Materials Needed:
   Paper, Pencil or Pen

IV. Instructions:

A. Calculate the theoretical probability of the following event to occur and determine its chance to happen based on the Level of Certainty. (4 points each item)

1.In rolling a fair dice, what is the chance of getting a number less than 4? All possible outcomes: Favorable Outcomes: Probability of the event (P(e)): Chance of the Event to Occur:	2. In drawing from a deck of an alphabet card, what is the chance of getting the first 8 letters of the alphabet? All possible outcomes: Favorable Outcomes: Probability of the event (P(e)): Chance of the Event to Occur:
3. In rolling a fair die, what is the chance of getting a number greater than 2? All possible outcomes:	4. What is the chance of getting a number less than 20 in a deck of number cards with numbers 1 to 20? All possible outcomes:

Favorable Outcomes:	Favorable Outcomes:
Probability of the event (P(e)):	Probability of the event (P(e)):
Chance of the Event to Occur:	Chance of the Event to Occur:

5. What is the chance of drawing a zero in a deck of number cards with numbers 1 to 20?

All possible outcomes:

Favorable Outcomes:

Probability of the event (P(e)):

Chance of the Event to Occur:

B. **Spinning Spinner**. A spinner on the right will be spun. Find the theoretical probability of the following events and determine their chance to occur using the Level of Certainty. (1 point each)

1. Spinning blue
2. Spinning green
3. Spinning blue or red
4. Spinning violet
5. Spinning any color other than orange.
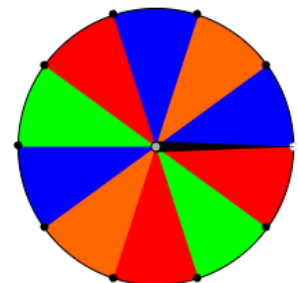
LEARNING ACTIVITY SHEET

Learning Area:	Mathematics 5	Quarter:	3rd Quarter
Lesson No.:		Date:	
Lesson Title/ Topic:	Theoretical Probability		
Name:		Grade & Section:	

I.   Activity 3 : Formative Assessment (30-minutes)

II.   Objective(s):
   a. Describe probability as a measure of the chance of an event occurring.
   b. Calculate the theoretical probability of a simple event by listing all possible outcomes.

III. Materials Needed:
   Paper, Pencil or Pen, Coloring material

IV. Instructions:

   A. Fill in the Blanks. Complete the following statements using the words inside the word box.

Probability	**Unlikely**	**Certain**
Likely	**Event**	**Experiment**
Impossible		**Fair Chance**
Theoretical Probability		**Favorable Outcome**

1. _____ is the measure of how likely or unlikely an event is to occur from an experiment.
2. An event is said to be _____ when its probability to occur is zero.
3. _____ tells us what is expected or likely to happen in an experiment even without conducting it.
4. A/An _____ is a set of one or more outcomes in an experiment.
5. An event with a probability of ½ is said to have a/an _____ to occur.
6. A/An _____ is any activity that involves chance and in which the result is observed.
7. An event has a/an _____ chance to occur if it has a probability that is greater than ½ but less than 1.
8. In conducting an experiment, we often have a desired result. This desired result is called _____.
9. If the probability of an event is one (1), then it is said to be _____ to occur.
10. An event has a/an _____ to occur if its probability is greater than zero but less than ½.

B. Calculate the theoretical probability of the following events to occur and determine its chance based on the level of certainty shown on the probability line. (4 points per item)

1.In rolling a fair dice, what is the chance of getting a number that is greater than 0 but less than 10?	2. Mario wants to know the probability of drawing a letter on his name from a deck of alphabet cards. What is the chance of this to occur?
All possible outcomes:	All possible outcomes:
Favorable Outcomes:	Favorable Outcomes:
Probability of the event (P(e)):	Probability of the event (P(e)):
Chance of the Event to Occur:	Chance of the Event to Occur:
3. What is the chance of getting an even number from a deck of alphabet cards?	4. What is the chance of drawing a number that is a multiple of 2 in a deck of number cards with numbers 1 to 20?
All possible outcomes:	All possible outcomes:
Favorable Outcomes:	Favorable Outcomes:
Probability of the event (P(e)):	Probability of the event (P(e)):
Chance of the Event to Occur:	Chance of the Event to Occur:

5. Mr. De La Torre bought iced candies for his students. He bought 14 buko pandan flavor, 4 chocolate flavor, 3 mango flavor, and 3 ube flavor. What is the probability of the first student to get a buko pandan flavor?

All possible outcomes:

Favorable Outcomes:

Probability of the event (P(e)):

Chance of the Event to Occur:

V. Synthesis/Extended Practice/Differentiation (if needed):

Think of an instance in your life when you are to choose from many options. (Buying from a store, choosing a snack, etc.) Describe the situation that you identified and calculate the theoretical probability of you choosing each option. (Maximum of 3 options)