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Learning Activity Sheet for Mathematics

Learning Activity Sheet for Mathematics Grade 8
Quarter 4: Lesson 8 (Week 8)
SY 2025-2026

Development Team

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	Quarter:	4
Lesson No.:	8	Date:	
Lesson Title/ Topic:	Review on probability of simple event		
Name:		Grade & Section:	

I.   **Activity No.1:** Try the Die! (8minutes)

II. **Objective(s):** To recall solving probability of simple event.

III. **Materials Needed:** activity sheet, pen

IV. **Instructions:** A fair die is rolled. Find the probability in fraction form.

   1. A six comes out
   2. An even number greater than 3 comes out.
   3. A prime number comes out.
   4. A number less than 6 comes out
   5. An even number greater than 6 comes out
   6. A one comes out
   7. A composite number comes out
   8. A number greater than 0 comes out
   9. A square number comes out.
   10. A negative number comes out.

V.   **Synthesis:**

   1. Were you able to recall your lessons about probability of simple event?

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   2. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics		Quarter:	4
Lesson No.:	8		Date:	
Lesson Title/ Topic:	Differentiate Simple and Compound Events			
Name:			Grade & Section:	

I. **Activity No. 2:** (10 minutes)

II. **Objective(s):** At the end of the lesson, the students are able to:

    a. differentiate a simple event from a compound event; and

    b. identify compound event as independent, dependent and mutually exclusive.

III. **Materials Needed:** activity sheet, pen

IV. **Instructions:**

A. Identify if the given illustrates a simple event or a compound event. Write SE for simple event and CE for compound event.

1. A class has 12 boys and 17 girls. A girl is chosen at random.
2. You flip a coin and then roll a fair six-sided die. The coin lands heads-up and the die showed a one.
3. A coin is tossed and it landed on head.
4. A bag contains eight red marbles and four blue marbles. You randomly pick a marble and then pick a second marble without returning the marbles to the bag. The first marble is red and the second marble is blue.
5. A deck of cards contains cards numbered from 1 to 81. A card is picked at random, and the card chosen is a number that is divisible by 5.
6. A card is drawn at random from a standard deck of 52 cards. The card drawn is either an ace or a king.
7. From a standard deck of cards, two cards are drawn without replacement.
8. From a standard deck of cards, two cards are drawn with replacement.
9. Alex is going to an animal shelter to pick a new pet. Today, the shelter has 8 dogs, 7 cats, and 5 rabbits available for adoption. He randomly picks an animal to adopt and it would be a cat or a dog.
10. A fair die is rolled. A multiple of three comes out.

B. For your answers in A that are compound events, identify the kind of compound event it illustrates.

V. Synthesis:

1. What are your hints or clues to verify that an event is simple or compound?

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2. What are your challenges in classifying the kind of compound event?

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3. How did you find the activity? Can you share and describe your experience?

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LEARNING ACTIVITY SHEET 3

Learning Area:	Mathematics		Quarter:	4
Lesson No.:	8		Date:	
Lesson Title/ Topic:	Calculating Probability of Compound Events			
Name:			Grade & Section:	

I. **Activity No. 3:** (15 minutes)

II. **Objective(s):** To solve the probability of a compound event.

III. **Materials Needed:** Activity sheet, pen

IV. **Instructions:** Find the probability of the following events. You can use, table, listing or tree diagram to help solve the problem. Express your answer in fraction form.

1. A pair of dice is rolled. What is the probability that:
   a. the sum of the two outcomes is 7.
   b. a 3 or a 5 comes out
   c. both outcomes are even
   d. a pair of 6 comes out
   e. a multiple of 3 and a prime number comes out
   f. The sum of the 2 numbers is 9 or 10.

2. Two coins are tossed. Find the probability of getting:
   a. two heads
   b. at least one head
   c. exactly one tail
   d. at most one tail

3. Three coins are tossed. Find the probability that:
   a. three heads come out
   b. exactly two heads come out
   c. at least one tail comes out
   d. at most one tail comes out

V. Synthesis:

1. Which part of the activity is challenging to you? Why?

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2. How did you find the activity? Can you share and describe your experience?

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Learning Area:	Mathematics	Quarter:	4
Lesson No.:	8	Date:	
Lesson Title/ Topic:	Solving Problems Involving Probability of Compound Events		
Name:		Grade & Section:	

I.   **Activity No. 4:** (15 minutes)

II. **Objective(s):** To solve problems involving probability of compound events.

III. **Materials Needed:** Activity sheet, pen

IV. **Instructions:** Analyze the following situation and answer each.

1. Ben is spinning a wheel which is divided into 4 equal parts and numbered 1 to 4. What is the probability that his first spin will land on 1 and then 3 on his second spin?

2. You randomly select two marbles from a bag that contains 14 green, 7 blue, and 9 red marbles. What is the probability that the first marble is blue and the second marble is not blue if:
    a. you replace the first marble before selecting the second and;

    b. you do not replace the first marble?

3. What is the probability of rolling a 3 and then not a 3 on a fair die?

4. A fair six-sided die is rolled twice. What is the theoretical probability that the first number that comes up is greater than or equal to the second number?

5. A ball is selected at random from a box containing 3 orange, 3 pink and 4 blue balls. Find the probability that a ball selected is either blue or orange.

V. Synthesis:

1. What the part of the activity is very easy for you?

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2. What the part of the activity is a bit challenging for you?

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3. How did you find the activity? Can you share and describe your experience?

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