Name: _____ Date: _____ Rating/Score: _____

## Activity 1: Fill Me In…

Complete the table. The first item is done for you.

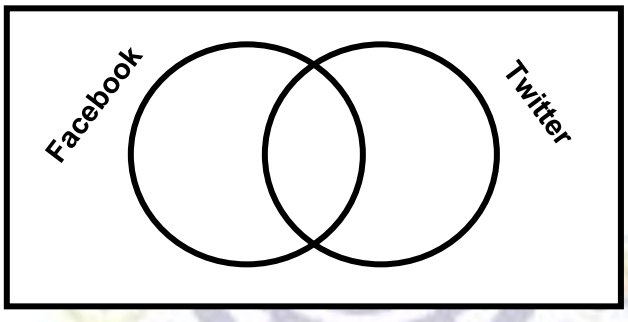
| *Experiments* | *n(E)* | *n(S)* | *P(E)* |
|---|---|---|---|
| 1. When a die is thrown, what is the probability of getting a number that is multiple of 3? | $\{3,6\}$<br>2 | $\{1,2,3,4,5,6\}$<br>6 | $\boldsymbol{P(E)} = \frac{2}{6} = \mathbf{\frac{1}{3}}$ |
| 2. In tossing a coin, find the probability of getting a tail. | | | |
| 3. Each of the letters from the word PEACE is written on a card. A card is picked from the bag at random. What is the likelihood of the letter 'E' being obtained? | | | |
| 4. When a die is thrown, what is the probability of getting a number that is less than 7? | | | |
| 5. A bag contains yellow and green marbles of the same sizes. There are 6 green marbles and 4 yellow marbles. Find the probability of getting a yellow one. | | | |
| 6. Find the chance of having a face card if a card is drawn randomly from a deck of cards. | | | |

**Quarter 3 Week: 8**
**Competencies: Finds the probability of (A∪B) M10SP-IIIg-h-1**
**Notes to teachers:** This material serves as summative assessment.

## Activity 2: LET'S DO THIS! FACEBOOK & TWITTER

**Directions:** Construct a Venn diagram and answer the following questions.

There are 20 Twitter accounts in a group of 50 teens, 35 have Facebook accounts, and 10 do not have an account. One adolescent is chosen randomly.




1. What is the probability of a teenager getting a Facebook account?

   _____

2. What is the probability of a teenager getting a Twitter account?

   _____

3. What is the probability of a teenager getting Twitter and Facebook accounts?

   _____

4. What is the probability that the teenager has either a Facebook or Twitter account?

   _____

5. What is the probability that the teenager have neither Facebook nor Twitter account?

   _____


**Competencies**: **illustrates mutually exclusive events. M10SP-IIIi-1**
**Notes to teachers:** This material serves as summative assessment.

## Activity 3: MUTUALLY OR NOT MUTUALLY?

A. **Direction**s: Tell whether the events are mutually exclusive or not mutually exclusive. Then, find the probability.

1. Mario has 45 chips in red, 12 chips in blue, and 24 chips in white. What is the chance that Mario will pick a red chip or a white chip at random?

2. Out of 240 students, 176 are members of the honor roll, 48 are members of the varsity team, and 36 are members of the honor roll and are members of the varsity team.

3. Ruby's dog has 8 puppies. White females, 3 mixed-color females, 1 white male, and 2 mixed-color males are the puppies. Ruby wants to keep one puppy. What is the likelihood that she picks a puppy that is female and white randomly?

4. Carl's basketball shooting records indicate that for any frame, the probability that he will score in a two-point shoot is 30%, a three-point shoot 45%, and neither 25%. What is the probability that Carl's will score either in a two-point shoot or three-point shoot?

B. **Directions:** Consider the situations below and answer the questions that follow.

1. There is a pair of rolled dices.

   a. What is the probability that even or greater than 8 is the sum of the numbers?

   b. What is the chance that the sum is bigger than 3?

   c. What is the probability of 5 or 8 being the sum?

2. Rhian likes to wear colored shirts. She has 15 shirts in the closet. Five are blue, four are in different shades of red, and the rest are of different colors. What is the probability of her wearing a blue or a red shirt?

3. The license plate number of a motorbike has 2 letters and 3 digits. What is the probability of having a license plate featuring a double letter and an even number for a motorbike?


**Competencies**: **illustrates mutually exclusive events. M10SP-IIIi-1**
**Notes to teachers:** This material serves as summative assessment.

# LEARNING ACTIVITY SHEETS
# Grade 10 - Mathematics

**Activity 4: Multiple Choice.** Choose the letter of the correct answer.

1. Jody has four cans of juice –orange, pineapple, calamansi, and guyabano. She will choose three that she will take with her to school. If she chose calamansi, what is the probability she also chooses pineapple?
   A. 7/8 B. 3/4 C. 1/3 D. 3/8
2. In a package, a baby has five blocks - red, yellow, green, blue, and black. The child takes a block out, looks at it, and puts it back into the package. What is the likelihood that the chosen 4 blocks are all of the same colors if he does this 4 times before getting tired and crawling away?
   A. $5/5^4$ B. $1/5^4$ C. $4/5^4$ D. $2/5^4$
3. Four batteries are present, and one of them is faulty. Two are to be selected for use at random. Find the likelihood that the chosen second battery is not defective because the first one was not defective.
   A. 2/3 B. 1/4 C. 1/3 D. ½
4. You were given two chances to spin a wheel with numbers 1 to 5. If you are not allowed to have the same result in both spins, what is the probability of spinning an odd number if your first spin is 4?
   A. 1/2 B. 3/4 C. 1/4 D. 1/8
5. When rolling a 6-sided die, what is the probability of rolling either an even number or a 5?
   A. 5/6 B. 1/2 C. 2/3 D. 1/12
6. Danny has 20 chocolates. Five are milk chocolates, and the rest are dark chocolates. What is the probability of getting dark chocolate?
   A. 3/4 B. 1/2 C. 1/15 D. 3/10
7. A vase includes 12 red roses, 5 yellow roses, and 3 white roses. Felix takes a rose from the vase at random. What is the probability of him not choosing a red rose?
   A. 12/20 B. 8/20 C. 8/12 D . 5/12
8. Leon throws a biased coin. The chance is 40% of having a tail. What is the possibility of having heads?
   A. 40% B. 60% C. 80% D. 20%
9. Daisy plants a bulb of daffodils. 0.8 is the likelihood that the bulb will expand. What is the possibility of the bulb not growing?
   A. 0.8 B. 0.2 C. 0.4 D. 0.6
10. There are 20 confections in a bag. One is picked at random from the bag. The probability that this confection is not chocolate is 0.6. How many chocolates are in the bag?
    A. 0.4 B. 4 C. 8 D. 12

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**Quarter 3 Week: 9**
**Competencies**: **illustrates mutually exclusive events. M10SP-IIIi-1**
**Notes to teachers:** This material serves as summative assessment.