Name:	Date:	Rating/Score:

## A. HEAD OR TAIL

Directions: Fill in the blanks.

Event: In a volleyball game, the referee tosses a coin to determine who will get to serve first. Team A chose "Head".

- 1. When we toss a coin, the possible outcomes are \_\_\_\_\_\_.
- 2. There are \_\_\_\_\_ possible outcomes.
- 3. If "Head" came out after the referee tossed the coin, then this is a \_\_\_\_\_\_

for Team A.

- The number of favorable outcomes is \_\_\_\_\_
- 5. The probability of the getting "Head" is \_

# B. SHADE IT UP

**Directions**: In each Venn diagram, shade the indicated operation.



Quarter 3 Week: 6 Competencies: illustrates events, and union and intersection of events. Notes to teachers: This material serves as summative assessment.

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## **C. VENN DIAGRAM**

**Directions**: Read and understand the problem. Write your solution and answer inside the box.

1. Suppose a die is rolled. Let *A* be the event that an even number turns up and let *B* be the event that an odd number appears. Determine the possible outcomes of events *A* and **B**. Draw a Venn diagram to illustrate that they are mutually exclusive events.

Answer: 2. Given: U = {a, b, c, d, e, f, g} A = a, b, c, d} B = {c, d, e, f, g} Find A U B. Draw a Venn diagram to illustrate A U B. Answer: 3. A die is tossed. Sample space S = {1, 2, 3, 4, 5, 6} Let A = event that an odd number occurs

Let A = event that an odd number occurs

B = event that a number greater than 4 occurs

Determine the elements of A and B. Find A U B then draw a Venn diagram to illustrate A U B.

Answer:

### D. Experiment Time!!!

From the given experiment, determine the sample space and the number of outcomes (the first is done for example).

Experiment	Sample Space as list	Number of
		Outcomes
Tossing 2 coin	{Head, Tail}	2
Rolling a Die		
Draw a card from		
a standard deck		
	South and the second second	
	war war	
Rolling a pair of		
Dice		

Draw the tree diagram of the experiment to determine the sample space and the number of outcomes: (the first experiment is already done for you).

Experiment	Tree Diagram	Sample Space	Number of Outcomes
Tossing 2 coins	$\begin{array}{c} 1^{\text{st}} \text{ toss} \\ H \\ H \\ T \\ T$	{HH,HT,TH,TT}	4
Tossing a coin and rolling a die		Can a	

From the activity above, answer the following guide questions:

- 1. What is the probability of both tails turning up when you tossed 2 coins?
- 2. If a card is drawn from an ordinary deck of 52 cards, find the probability of getting a heart and a queen. \_\_\_\_\_
- 3. What is the probability that the die shows an odd number or a number less than six? \_\_\_\_\_
- 4. How many outcomes are there if we simultaneously roll a 6-sided die and throw a coin? \_\_\_\_\_
- 5. When the die is rolled, find the probability of getting greater than 3.

### E. MULTIPLE CHOICE

**DIRECTIONS:** Read and understand each item carefully. Choose the letter of the best answer.



Quarter 3 Week: 7 Competencies: Illustrates the Probability of a union of two events M10SP-Illg-1 Notes to teachers: This material serves as summative assessment.

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