

# THE GAME OF PIG AFTER DAY 6

## PROBABILITY WORKSHEET

Find the probability of each event.

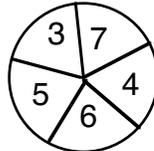
1. Rolling a die and getting a 7. 1. \_\_\_\_\_

2. Rolling a die and getting a 5 or a 6. 2. \_\_\_\_\_

3. Picking a spade from a standard deck of cards. 3. \_\_\_\_\_

4. Picking a picture card (jack, queen, king) from a standard deck of cards. 4. \_\_\_\_\_

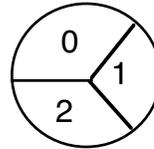
5. Getting higher than a 4 on the spinner shown at the right.



(Assume that all divisions of the spinner are equal)

5. \_\_\_\_\_

6. Getting an even number on the spinner shown at the right.



(Assume that all divisions of the spinner are equal)

6. \_\_\_\_\_

7. Picking a 4 or a heart from a deck of cards. 7. \_\_\_\_\_

8. Flipping a coin twice and getting tails twice. 8. \_\_\_\_\_

9. If you flip a coin three times, you can get any of the following results: HHH, HHT, HTH, HTT, THH, THT, TTH, TTT.

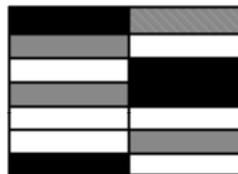
a. Getting exactly two heads. 9a. \_\_\_\_\_

b. Getting at least two heads 9b. \_\_\_\_\_

c. Getting at most two heads 9c. \_\_\_\_\_

d. Not getting two heads 9d. \_\_\_\_\_

10. Dropping a dart randomly on the rug at the right and landing on a gray area.

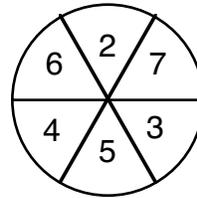


10. \_\_\_\_\_

***The Game of Pig: Probability Quiz after Day 8***

Find the probability of each event.

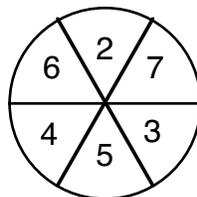
1. Flipping a coin twice and getting tails once. 1. \_\_\_\_\_
2. Flipping a coin three times and getting heads three times. 2. \_\_\_\_\_
3. Picking a heart from a standard deck of cards. 3. \_\_\_\_\_
4. Rolling a die and getting a prime number. 4. \_\_\_\_\_
5. Getting lower than a 5 on the spinner shown at the right. 5. \_\_\_\_\_



***The Game of Pig: Probability Quiz after Day 8***

Find the probability of each event.

1. Flipping a coin twice and getting tails once. 1. \_\_\_\_\_
2. Flipping a coin three times and getting heads three times. 2. \_\_\_\_\_
3. Picking a heart from a standard deck of cards. 3. \_\_\_\_\_
4. Rolling a die and getting a prime number. 4. \_\_\_\_\_
5. Getting lower than a 5 on the spinner shown at the right. 5. \_\_\_\_\_



## THE GAME OF PIG

### AFTER DAY 12

For each problem, draw a RUG diagram representing.

1. Flipping a coin and tossing a die.
  - a. Find  $P(H, 6)$
  - b. Find  $P(T, \text{even})$
  
2. Spinning a red, blue, white spinner with all three parts equal and flipping a coin.
  - a. Find  $P(\text{white}, T)$
  - b. Find  $P(\text{not white}, H)$
  
3. Tossing a die and spinning a red, blue, white spinner with all three parts equal.
  - a. Find  $P(\text{odd}, \text{red})$
  - b. Find  $P(3, \text{not red})$
  - c. Find  $P(\text{prime}, \text{white})$



## THE GAME OF PIG

### AFTER DAY 21

For each problem, draw a RUG diagram and a TREE diagram to represent the situation.

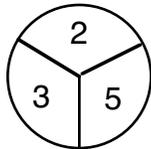
1. The result of flipping two coins.

- a. Find  $P$  (2 heads)
- b. Find  $P$  (1 head, 1 tail)

2. The result of flipping three coins.

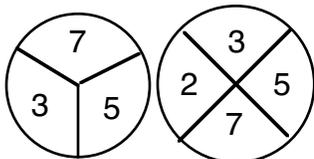
- a. Find  $P$  (exactly 2 heads)
- b. Find  $P$  (exactly one tail)
- c. Find  $P$  (at least 2 heads)
- b. Find  $P$  (at least one tail)

3. Spin the spinner (shown below) twice. Assume that each outcome is equally likely.



- a. Find  $P$  (6)
- b. Find  $P$  (at least 6)
- c. Find  $P$  (at most 6)
- d. Find  $P$  (at most 7)

4. Spin each spinner (shown below) once. Assume that each outcome is equally likely.



- a. Find  $P$  (odd)
- b. Find  $P$  (at least 8)
- c. Find  $P$  (8)
- d. Find  $P$  (less than 5)

