

Name: \_\_\_\_\_



PRACTICE



TUTORIAL

## 7-1 Additional Practice

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1. A random selection will be made from a bag containing different colored disks. Of the 25 disks in the bag, 5 are yellow, so  $P(\text{yellow}) = \frac{5}{25}$ .

a. The probability that a yellow disk will be selected is 0 is .

b. Complete the sentence to describe the likelihood of randomly selecting a yellow disk.

It is  that a yellow disk will be randomly selected from the bag.

2. Sandra spins the pointer of a spinner. The spinner has four equal sections labeled 1 to 4.

a. The probability that the pointer will land on a number less than 5 is .

b. Complete the sentence to describe the likelihood of landing on a number less than 5.

It is  that the pointer will land on a number less than 5.

3. Michael is planting a garden. The probability that a seed will produce a plant is  $\frac{9}{10}$ .

a. The probability that a seed will produce a plant is %.

b. Complete the sentence to describe the likelihood that a seed will produce a plant.

It is  that a seed will produce a plant.

4. A bag contains 80 colored tokens. Of all the tokens in the bag, 25 are black and  $\frac{5}{16}$  are red.

a. Find, in percent form, the probability of choosing a black token and the probability of choosing a red token from this bag.

b. Compare the likelihood of choosing a black token to that of choosing a red token.



5. Is the spinner shown a fair spinner? Explain why or why not.



6. Angela is using a number cube for a game with faces labeled 1, 2, 3, 4, 5, and 6. Is the number cube fair? Explain why or why not.

7. Of all 25 marbles in a bag, 3 of the marbles are white.

a. What is the probability that a white marble will be randomly selected from the bag without looking? Write your answer as a percent.

b. Describe the likelihood of randomly selecting a white marble from the bag.

8. **Higher Order Thinking** Greg has a bag that contains 25 colored tiles. Of all the tiles in the bag, 10 are blue. Suppose another bag contains 250 colored tiles. Of all the tiles in this bag, 75 are blue. From which bag is Greg *less* likely to pick a blue tile? Explain.

## © Assessment Practice

9. Hector made some observations about the numbered cards before his friend turned them face down and rearranged them in a different order without Hector looking. Which of Hector's statements is true if Hector randomly selects one face-down card? Select all that apply.

0	1	6	3
3	5	6	0

- The probability that Hector will select a card numbered 1 is  $\frac{1}{8}$ .
- The probability Hector will select an odd-number card is greater than 50%.
- It is certain Hector will select a card with a label that is greater than 0.
- It is impossible for Hector to select a card labeled 2.
- It is more likely that Hector will select a card labeled 0 than a card labeled 3.

