

Name: _____

Date: _____ Per: _____

Lesson 1.2.3 Homework

- **1-80.** Tom keeps all of his favorite marbles in a special leather bag. Right now, five red marbles, four blue marbles, and three yellow marbles are in the bag.
 - a. If he randomly chooses one marble to give to a friend, what is the probability that it is blue?
 - a. Tom does not really want to give away blue marbles and would like to change the probability that he chooses a blue marble to $\frac{1}{10}$. How many marbles that are not blue could he add to the bag so that the probability of choosing a blue marble becomes $\frac{1}{10}$?

- **1-81.** Your team is in charge of games at the CPM Amusement Park. One of the games involves a robotic arm that randomly grabs a stuffed animal out of a large bin. You need to set up the game so that the probability of a customer's grabbing a teddy bear is exactly $\frac{1}{2}$.

- a. How would you set up the bin? Explain.
- a. What if you returned to check on the bin and found that there were 4 teddy bears left and 12 other animals? What could you add to or remove from the bin to return the probability of selecting a teddy bear to $\frac{1}{2}$?



- **1-82.** Write four different fractions that are equal to 1. Use your calculator to check that you are correct.
- **1-83.** A rectangular park is 150 yards on one side and 125 yards on the other.
 - b. If Debbie walks around the park two times, how far does she walk? Sketch a figure and show your work.
 - a. If Debbie wanted to walk 1,000,000 yards, how many times would she have to walk around the park?

- **1-84.** Find the perimeter and area of each figure.

