Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

Lesson 1.2.3 Problems 1-80 to 1-84

**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?

b. Tom does not really want to give away blue marbles and would like to change the probability that he chooses a blue marble to https://ebooks.cpm.org/images/shared/1-10.gif.  How many marbles that are not blue could he add to the bag so that the probability of choosing a blue marble becomes https://ebooks.cpm.org/images/shared/1-10.gif?

**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 pic.

a. How would you set up the bin?  Explain.

b. 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 pic?

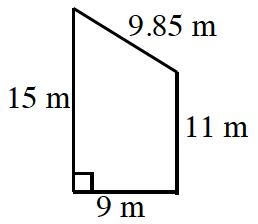
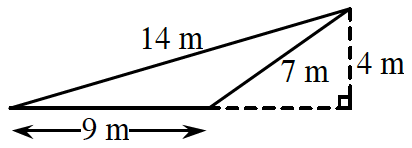
**1-82.** Write four different fractions that are equal to 1.  Use your calculator to check that you are correct.

**1-83.** A rectangular park is 150 yards on one side and 125 yards on the other.

a. If Debbie walks around the park two times, how far does she walk?  Sketch a figure and show your work.

b. 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.

a. b.

Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_