Name _____ Date _____

1. The carnival is in town for 35 days. How many weeks is the carnival in town? (There are 7 days in 1 week.) Write an equation, and solve.

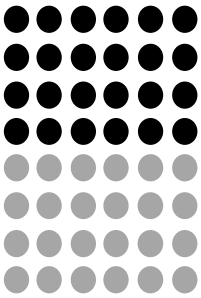
2. There are 54 liters of water needed to finish filling the dunk tank at the carnival. Each container holds 6 liters of water. How many containers are needed to finish filling the dunk tank? Represent the problem using multiplication and division sentences and a letter for the unknown. Solve.

   _____ × _____ = _____

   _____ ÷ _____ = _____

3. There are 4 rows of 6 chairs setup for the Magic Show. A worker sees the large number of people lined up and doubles the number of rows of chairs. They are shown below.

   Explain and label to show how the array represents both 8 × 6 and 2 × (4 × 6).



4. a. Fabrizio wins a bumble-bee doll with 6 stripes. He notices that 7 other children in line for the Magic Show won the same doll. How many stripes are on 8 bumble-bee dolls? Write an equation using a letter to represent the unknown. Solve.

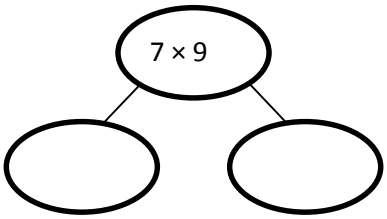
The magician uses a magic box. Every time he puts an object in, it gets multiplied. Fabrizio writes down what happens each time and tries to find a pattern. Look at his notes to the right.

b. Use the pattern to fill in the number of bean bags.

c. What does the magic box do? Explain how you know.

In	Out
2 Feathers	18 Feathers
3 Marbles	27 Marbles
4 Dice	36 Dice
5 Wands	45 Wands
6 Bean bags	___ Bean bags

d. The magician puts 7 rings into the magic box. Fabrizio draws a number bond to find the total number of rings after they are multiplied in the magic box. Use the number bond to show how Fabrizio might have solved the problem.



e. After the show, Fabrizio and 6 friends equally share the cost of a $49 magic set. They use the equation 7 × n = $49 to figure out how much each person pays. How much does Fabrizio pay?