

# Study Guide. Assessment on Friday

Name \_\_\_\_\_ | point \_\_\_\_\_ 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. 1 pt

3 pts

7	14	21	28	35	$7 \times 5 = 35$
1wk	2wk	3wk	4wk	5wk	

The carnival was in town for 5 weeks.

2. There are 56 liters of water needed to finish filling the dunk tank at the carnival. Each container holds 8 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. 1 pt. 1 pt.

5 pt

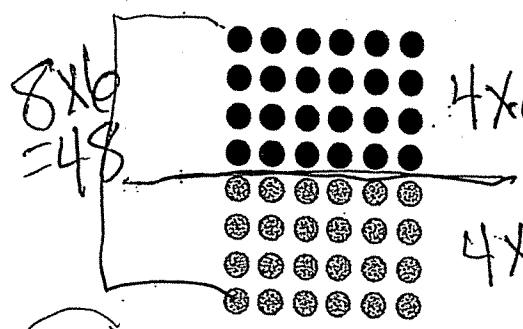
1 pt.  $8 \times d = 56$   
 1 pt.  $56 \div 8 = d$

- 8, 16, 24, 32, 40, 48, 56

$d = 7$  There are 7 containers needed.

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.

1 pt. Explain and label to show how the array represents both  $8 \times 6$  and  $2 \times (4 \times 6)$  1 pt.



3 pts

It's  $8 \times 6$  because it's 4 + 4 rows  $\times 6$ .

It's  $2 \times (4 \times 6)$  because  $2 \times 24 = 48$

4. a. Fabrizio wins a bumblebee doll with 5 stripes. He notices that 5 other children in line for the Magic Show won the same doll. How many stripes are on 6 bumblebee dolls? Write an equation using a letter to represent the unknown. Solve.



$6 \times 5 = f$      $f = 30$   
There are 30 stripes.

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.

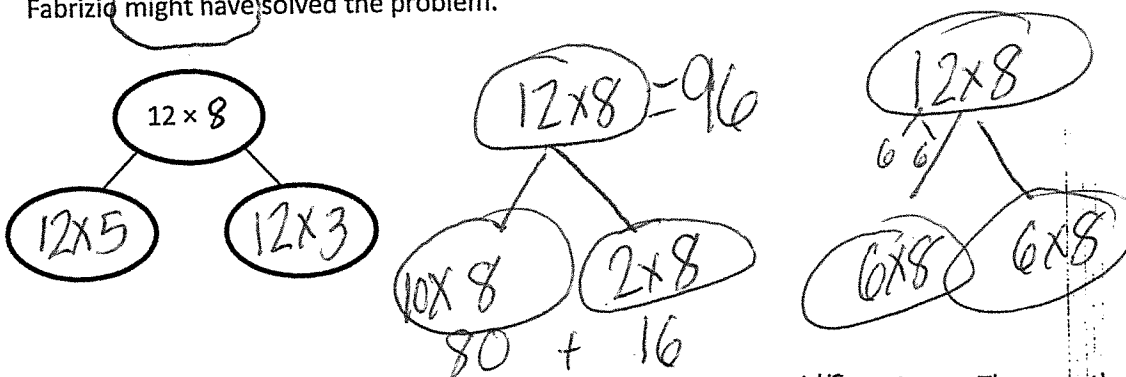
- b. Use the pattern ~~to fill in the number~~ of bean bags.

In	Out
2 Feathers $\times 8 =$	16 Feathers
3 Marbles $\times 8 =$	24 Marbles
4 Dice $\times 8 =$	32 Dice
5 Wands $\times 8 =$	40 Wands
6 Bean bags $\times 8 =$	48 Bean bags

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

It multiplies by 8 because the pattern counts by 8's.

- d. The magician puts 12 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 5 friends equally share the cost of a \$48 magic set. They use the equation  $6 \times n = 48$  to figure out how much each person pays. How much does Fabrizio pay?

