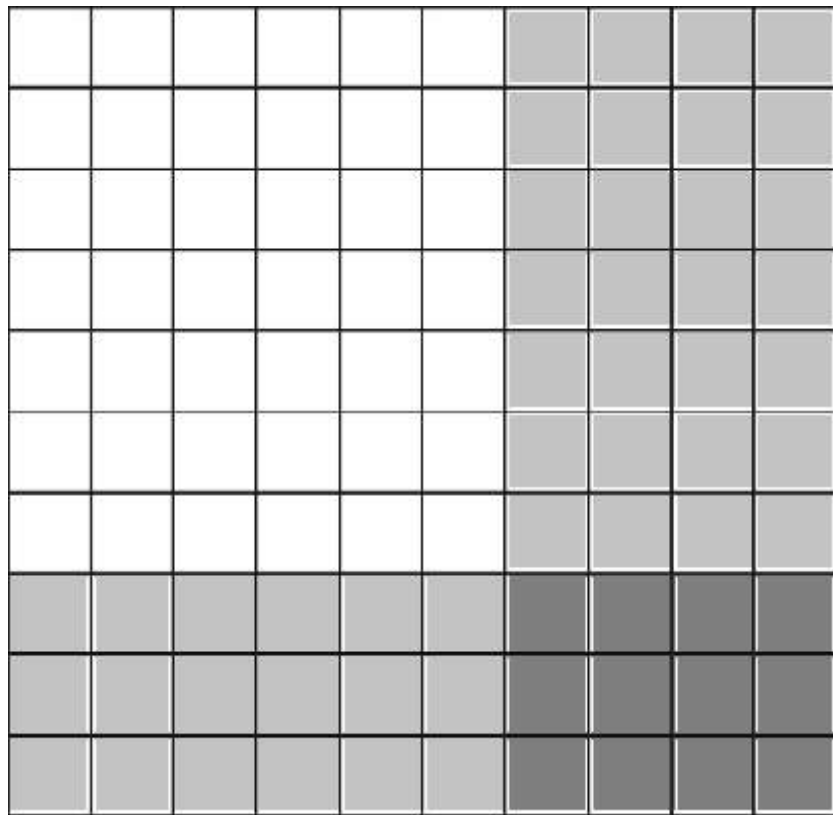Name:_____   Date: _____

Unit 9 Pre-Test

Connecting Whole Number Multiplication and Division Concepts to Decimals

1. A student earns $11.75 per hour for gardening. If she worked 21 hours this month, then how much did she earn?

2. Nitya used a hundredths model to represent the two numbers she multiplied and their product.

What equation is represented by the shaded parts of Nitya's model?
   a. .03 x .04 = .12
   b. .30 x .40 = .12
   c. .30 x .40 = 12.0
   d. 30 x 40 = 120

Unit 9 Pre-Test

Connecting Whole Number Multiplication and Division Concepts to Decimals

3. A store owner has 7.11 lbs. of candy. If she puts the candy into 9 jars, how much candy will each jar contain?

4. What is the average speed in miles per hour of a car that travels 956.4 miles in 15 hours? Round your answer to the nearest tenth.

5. Mrs. Kim is trying to fit all of her students tissue boxes on her shelf that is 169 centimeters long. A tissue box is 12.02 centimeters in width. If there are 13 tissue boxes will Ms. Kim be able to fit all of them on her shelf?

6. 5 friends are trying to split the cost of a 8 piece pizza so that each person pays for what they ate. If the pizza cost $15, about how much money will Grace have to spend if she ate 2 slices of pizza?
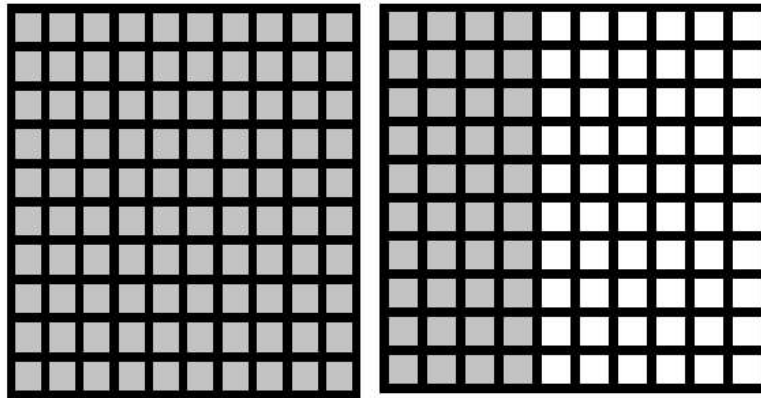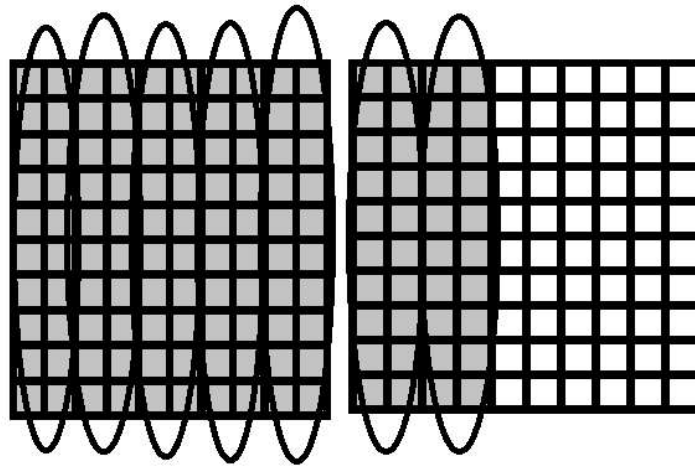
Unit 9 Pre-Test
Connecting Whole Number Multiplication and Division Concepts to Decimals

7. The model below is shaded to represent one and four-tenths.

Abi is using the model to represent a division problem as shown below.

Which of the following equations could be represented by this model?

a. $1.4 \div .2 = .7$
b. $1.4 \div 7 = 2$
c. $1.4 \div 7 = .2$
d. $1.4 \div 2 = .7$

Unit 9 Pre-Test

Connecting Whole Number Multiplication and Division Concepts to Decimals

8. Kathy earns $6.50 per hour at her babysitting job. If she works 7 hours every Sunday, how much money will Kathy earn in a 9-week period?

9. Ms. Baker is going to start running sprints every morning. If each sprint is 5 meters long. How many sprints will Ms. Baker have to run in order to run 80.46 meters? Round your answer to the nearest hundredth.

10. Mrs. Picha is putting new carpet in her media room. Below is a picture of the size of the room.

37 km

19.6 km
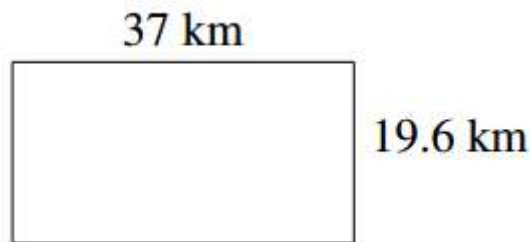
How much carpet will Mrs. Picha need to buy in order to carpet the entire room?