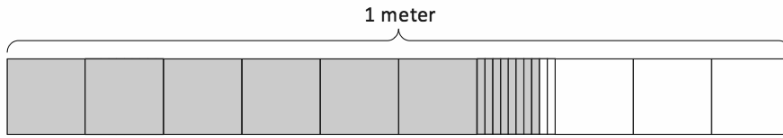Name _____   Date _____

1. Express the lengths of the shaded parts in decimal form. Write a sentence that compares the two lengths. Use the expression *shorter than* or *longer than* in your sentence.
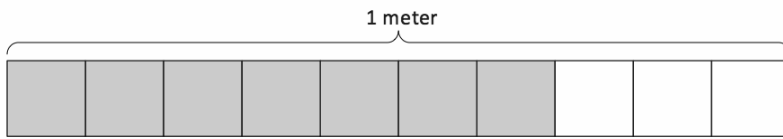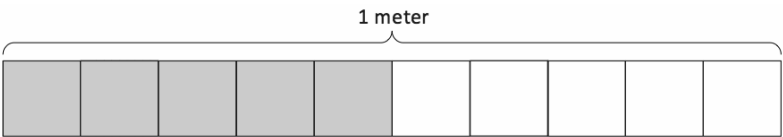
a.

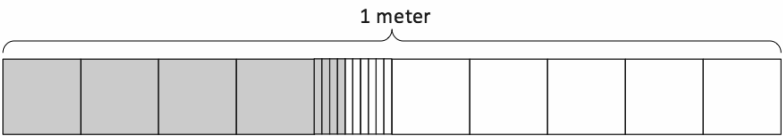1 meter

0.68m

0.68 meters is shorter than 0.7 meters.

1 meter

0.7m

b.

1 meter

0.5 m

0.5 meters is longer than 0.44 meters.

1 meter

0.44 m

c. List all four lengths from least to greatest.

0.44 m, 0.5 m, 0.68 m, 0.7 m

2. a. Examine the mass of each item as shown below on the 1-kilogram scales. Put an X over the items that are heavier than the volleyball.

0.15 kg   0.62 kg   0.43 kg   0.25 kg

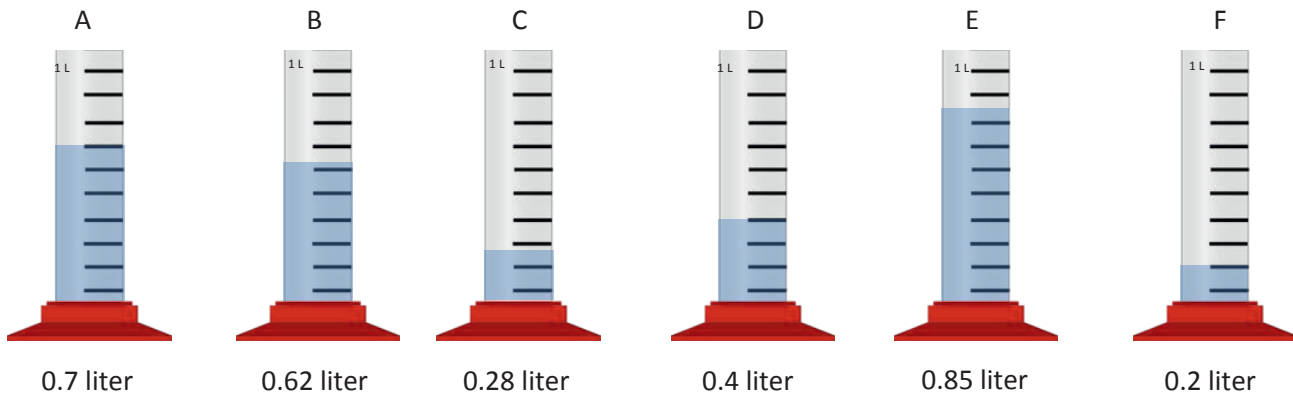Lesson 9:   Use the place value chart and metric measurement to compare
decimals and answer comparison questions.

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b.   Express the mass of each item on the place value chart.

	ones (kilograms)	●	tenths	hundredths
baseball	0	●	1	5
volleyball	0	●	2	5
basketball	0	●	6	2
soccer ball	0	●	4	3

c.   Complete the statements below using the words *heavier than* or *lighter than* in your statements.

The soccer ball is __heavier than__ the baseball.

The volleyball is __lighter than__ the basketball.

3.   Record the volume of water in each cylinder on the place value chart below.

A	B	C	D	E	F
0.7 liter	0.62 liter	0.28 liter	0.4 liter	0.85 liter	0.2 liter

Cylinder	ones (liters)	.	tenths	hundredths
A	0	●	7	
B	0	●	6	2
C	0	●	2	8
D	0	●	4	
E	0	●	8	5
F	0	●	2	

Compare the values using >, <, or =.

a.   0.4 L __>__ 0.2 L

b.   0.62 L __<__ 0.7 L

c.   0.2 L __<__ 0.28 L

d.   Write the volume of water in each beaker in order from least to greatest.

0.2, 0.28, 0.4, 0.62, 0.7, 0.85

EUREKA MATH™

Lesson 9:   Use the place value chart and metric measurement to compare decimals and answer comparison questions.

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