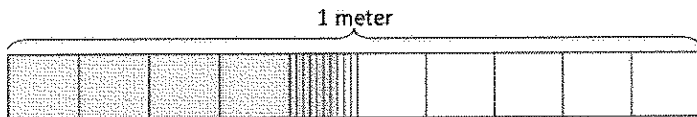


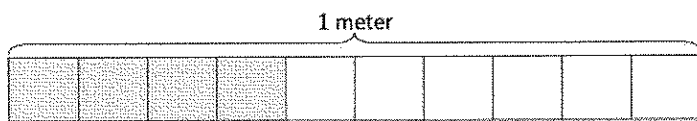
G4-M6-Lesson 9

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.



0.47

I know that $0.47 = 4$ tenths
 7 hundredths.



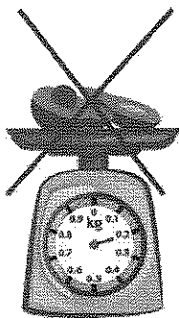
0.4

I know that $0.4 = 4$ tenths.

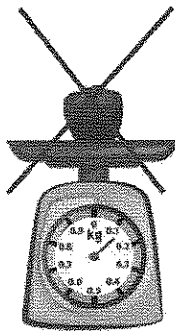
0.47 meter is longer than 0.4 meter.

Both numbers have 4 tenths. 0.47 meter is longer because it has an additional 7 hundredths. I can see that by looking at the tape diagrams.

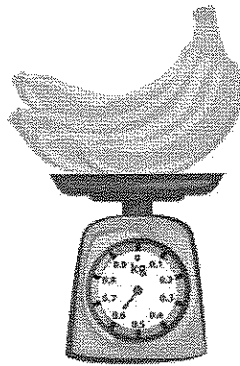
2. Examine the mass of each item as shown below on the 1-kilogram scales. Put an X over the items that are lighter than the bananas.



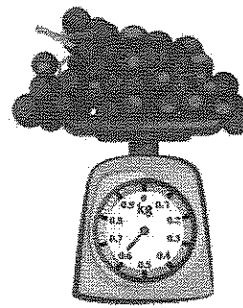
0.2 kg



0.12 kg



0.6 kg



0.61 kg

0.2 = 2 tenths

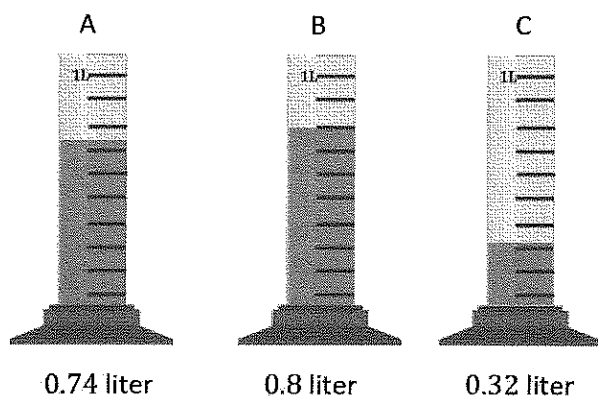
0.12 = 1 tenth 2 hundredths

0.6 = 6 tenths

0.61 = 6 tenths 1 hundredth

I compare by looking at the largest place value unit in the mass of each item. The largest unit in each item is tenths. The avocado and the apple have fewer tenths than the bananas. The grapes have the same number of tenths, but they also have 1 more hundredth. The grapes are heavier than the bananas.

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



Volume of Water (in liters)

| Cylinder | ones | . | tenths | hundredths |
|----------|------|---|--------|------------|
| A | 0 | . | 7 | 4 |
| B | 0 | . | 8 | 0 |
| C | 0 | . | 3 | 2 |

Compare the values using $>$, $<$, or $=$.

- a. $0.74 \text{ L} \underline{>} 0.32 \text{ L}$
- b. $0.32 \text{ L} \underline{<} 0.8 \text{ L}$
- c. $0.8 \text{ L} \underline{>} 0.74 \text{ L}$

- d. Write the volume of water in each graduated cylinder in order from least to greatest.

0.32 L , 0.74 L , 0.8 L

I look at the pictures and the completed table to help me compare the values. Tenths are the largest unit in each number, so I can compare the number of tenths in each number to determine which is greater and which is less.