

Name _____

Date _____

Ratios and Units of Measurement - Guided Lesson Explanation

Explanation#1

Step 1) The best way to approach this problem is to get all of the measurements into the same unit.

Step 2) We know that,

$$1 \text{ centimeter} = 10 \text{ millimeters}$$

Step 3) Now find out how many millimeters are in 7 centimeters.

$$\text{We should multiply } 7 \times 10 = 70$$

There are 70 millimeters in 7 centimeters. 70 is more than 60.

- 7 centimeters
- 60 millimeters
- Neither, they are equal

So, 7 centimeters is more than 60 millimeters

Explanation#2

Step 1) Now we just need to convert one measurement.

Step 2) We know that,

$$1 \text{ tablespoon} = 3 \text{ teaspoons}$$

Step 3) We have to find how many teaspoons are in 3 tablespoons.

So we have to convert from a larger unit to a smaller unit.

Let's get everything into proportion form.



Name _____

Date _____

$$\frac{1 \text{ tablespoon}}{3 \text{ teaspoons}} = \frac{3 \text{ tablespoon}}{x \text{ teaspoons}}$$

Step 4) Cross multiply:

$$\frac{1 \text{ tablespoon}}{3 \text{ teaspoons}} \times \frac{3 \text{ tablespoon}}{x \text{ teaspoons}}$$

$$1x = 9$$

$$X = 9$$

9 teaspoons = 3 tablespoons

Explanation#3

Step 1) This is pretty straight forward:

"40 yards 2 feet ÷ 2"

Divide 40 by 2 and 2 by 2.

When we divide both the yards and the feet by 2.

$$(40 \text{ yards } 2 \text{ feet}) \div 2 = 20 \text{ yards } 1 \text{ foot}$$

So, the answer is 20 yards 1 foot

