Converting using the Metric System

Learn it…

http://study.com/academy/lesson/how-to-convert-units-in-the-metric-system.html

Questions from Video #1:

1. What are some of the units we use here in the US? (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What “system” does the rest of the world use? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What are some of the measurements used in the metric system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What do we need to do to convert between the various units in the metric system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What do we need to “know” when using the metric system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Write the units in order from greatest to least

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1. How can we remember this order? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is “another really nice thing about the metric system”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. How many decimeters are there in 1 meter? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\* You can stop this video at 3:06, Now click the back button and click on the 5th video in the list <https://www.youtube.com/watch?v=eIu0geu9OMU>

1. Fill in the “ladder” below with the information from the video

**Basic**

**Unit**

To convert to a \_\_\_\_\_\_\_\_\_\_\_\_ unit, move the decimal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or multiply.

To convert to a \_\_\_\_\_\_\_\_\_\_\_\_ unit, move the decimal to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or divide.

**Meters**

**Liters**

**Grams**

1. How do you use the” ladder “ method?

1st \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2nd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3rd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: 4km = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ m 4.\_\_\_. \_\_\_\_. \_\_\_. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use it…

**Part A: Write the correct abbreviation for each metric unit.**

1. Kilogram \_\_\_\_\_
2. Milliliter \_\_\_\_\_
3. Kilometer \_\_\_\_\_
4. Meter \_\_\_\_\_
5. Millimeter \_\_\_\_\_
6. Centimeter \_\_\_\_\_
7. Gram \_\_\_\_\_
8. Liter \_\_\_\_\_
9. Milligram \_\_\_\_\_

**Part B: Try these conversions, using the ladder method.**

1. 2000 mg = \_\_\_\_\_\_\_\_\_\_\_\_ g
2. 5 L = \_\_\_\_\_\_\_\_\_\_\_\_ mL
3. 16 cm = \_\_\_\_\_\_\_\_\_\_\_\_ mm
4. 104 km = \_\_\_\_\_\_\_\_\_\_\_\_ m
5. 198 g = \_\_\_\_\_\_\_\_\_\_\_\_ kg
6. 2500 m = \_\_\_\_\_\_\_\_\_\_\_\_ km
7. 480 cm = \_\_\_\_\_\_\_\_\_\_\_\_ m
8. 75 mL = \_\_\_\_\_\_\_\_\_\_\_\_ L
9. 65 g = \_\_\_\_\_\_\_\_\_\_\_\_ mg
10. 5.6 kg = \_\_\_\_\_\_\_\_\_\_\_\_ g
11. 50 cm = \_\_\_\_\_\_\_\_\_\_\_\_ m
12. 6.3 cm = \_\_\_\_\_\_\_\_\_\_\_\_ mm
13. 8 mm = \_\_\_\_\_\_\_\_\_\_\_\_ cm
14. 5.6 m = \_\_\_\_\_\_\_\_\_\_\_\_ cm
15. 120 mg = \_\_\_\_\_\_\_\_\_\_\_\_ g

**Part C: Compare using <, >, or =. For this part, first convert one of the measurements to the other measurements unit, then compare.**

1. 63 cm \_\_\_\_ 6 m
2. 5 g \_\_\_\_508 mg
3. 1,500 mL\_\_\_\_1.5 L
4. 536 cm \_\_\_\_ 53.6 dm
5. 43 mg \_\_\_\_5 g
6. 3.6 m \_\_\_\_36 cm