

# Warm-Up 10/3/17

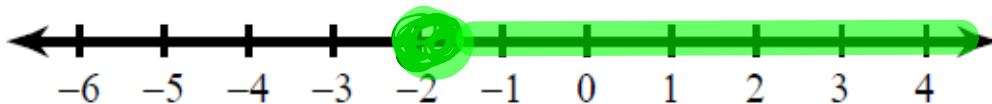
Do the following conversions:

1. 5 ft = 60 in

2. 64 qt = 16 gal

3. Solve this inequality and graph its solution.

$$32 \geq -16p$$



$$\textcircled{1} \quad \text{ft} \rightarrow \text{inches}$$

$$L \rightarrow S \quad (\times)$$

$$1 \text{ ft} = 12 \text{ inches} \quad \text{Conversion factor}$$

$$5 \times 12 = 60$$

$$\textcircled{2} \quad \text{qt} \rightarrow \text{gallon}$$

$$S \rightarrow L \quad (\div)$$

$$4 \text{ qts} = 1 \text{ gallon}$$

$$64 \div 4 = 16$$

$$\boxed{\text{OR}} \quad \frac{4 \text{ qts}}{1 \text{ gallon}} = \frac{64}{x}$$

$$\frac{4x}{4} = \frac{64}{4}$$

$$\boxed{x=16}$$

$$\textcircled{3} \quad \frac{32}{-16} \geq \frac{-16p}{-16}$$

$$-2 \leq p$$

$$\boxed{p \geq -2}$$

4. Solve for x in this equation

$$4(2x - 3) = 2(3x + 1)$$

$$8x - 12 = 6x + 2$$

$$8x - 6x = 2 + 12$$

$$\frac{2x}{2} = \frac{14}{2}$$

$$\boxed{x = 7}$$

Length

inches

ft

yds

miles

Weight

oz

lb

ton

Capacity

fl. oz


Cup

pint

quart

gallon.

**Remember this for Customary Conversions!**

**Small units**  **Large units**  
**Divide**

**Large units**  **Small units**  
**Multiply**

## Module 4: Equations & Inequalities.

Standard:

**MGSE5.MD.1:** Convert like measurement units within a given measurement system.

## Essential Question 10/3/17

- How can I convert units in Metric System?

### Objective:

- I can convert units for length, weight, and capacity in metric system.

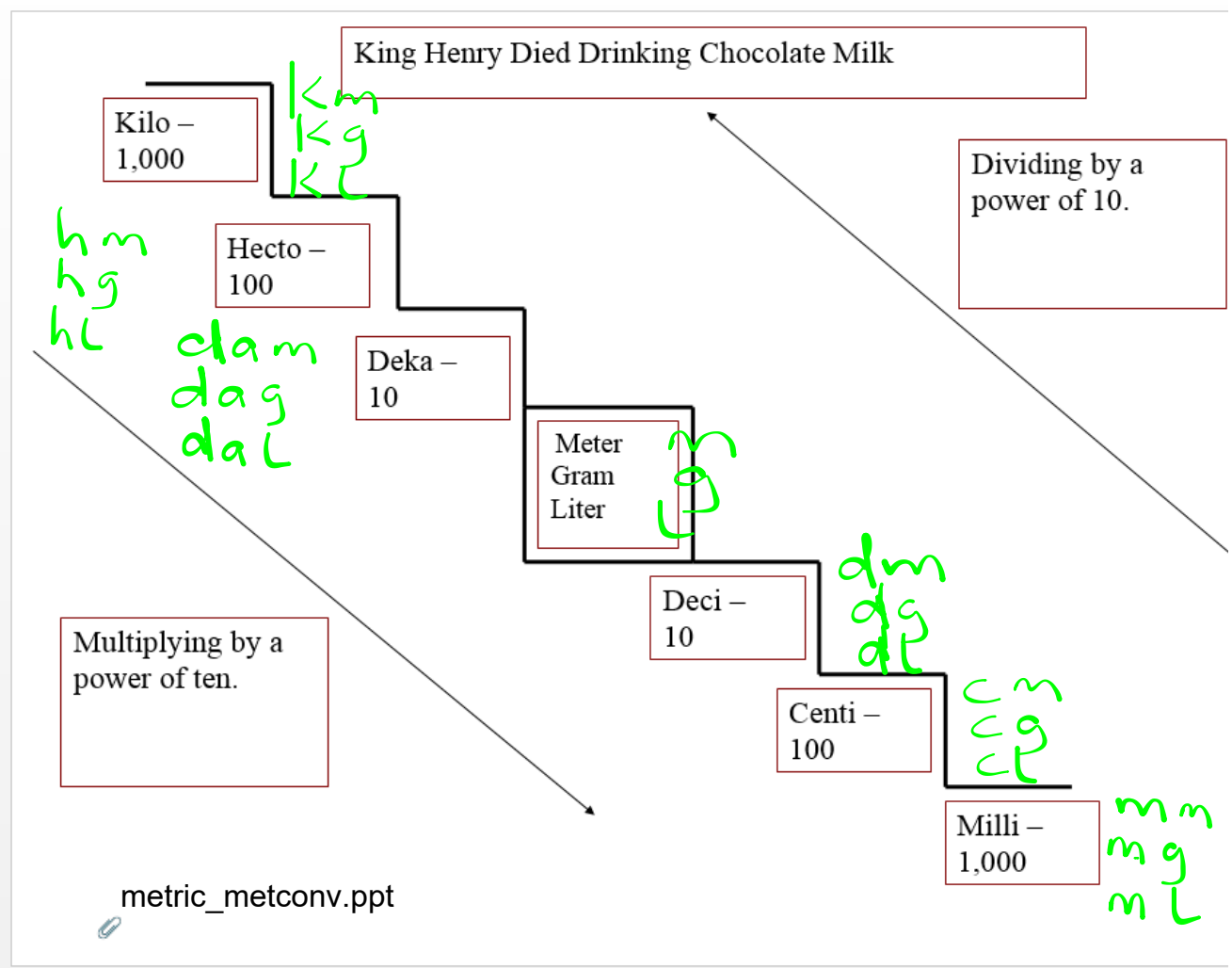
# The Metric System

- The metric system is a measurement system based on our decimal (base 10) number system.
- Other countries and all scientists and engineers use the metric system for measurement.

Metric Conversions Good.ppt



# Metric Conversions - Fill In



# Class Work Practice 10/3/17

## Measurement Conversion Homework

Customary Conversion

$$\frac{1 \text{ pint}}{2 \text{ cups}} = \frac{x}{6 \text{ cups}} \quad 2x = 6$$

$$x = 3$$

1. 6 cups = 3 pints

2. 114 inches = 9.5 feet

3. 56 ounces = 3.5 pounds

4. 3 gallons = 96 pints

$$\frac{1 \text{ ft}}{12 \text{ in}} = \frac{x}{114 \text{ in}} \quad 12x = 114$$

S → L  
 $56 \div 16 = 3.5$   
 $x = 9.5$

5. 3 feet = 1 yard

6. 4 quarts = 1 gallon

7. 5280 feet = 1 mile

8. 2000 pounds = 1 ton

④ 32 pints = 1 gallon

$$\frac{32 \text{ pt} = x}{1 \text{ gallon} \quad 3 \text{ gallon}}$$

$x = 96 \text{ pints}$

Metric Conversion

9. 50 cm = 500 mm

10. 4.3 kg = 4300 g

11. 210 mL = .210 L

12. 5,623 mm = 5.623 m

13. 100 cm = 1 meter

14. 1000 mg = 1 gram

Can you go the distance?

15. If you live 5 miles from Kennesaw Mountain and your best friend lives 5000 yards from Kennesaw Mountain, who lives closer to the mountain? Show your work and explain your answer.

5 miles  $\rightarrow$  yards

$$1760 \text{ yds} = 1 \text{ mile}$$

$$\frac{1760 \text{ yd}}{1 \text{ mile}} = \frac{X}{5 \text{ miles}}$$

$$X = \underline{8800 \text{ yds}}$$

friend lives 5000 yds from  
Kennesaw Mountain

Therefore, friend lives closer  
to the mountain.

# More Practice 10/3/17

1. Convert. Use your Reference Sheet to help you remember the conversion factors.

a.  $4.5 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

d.  $8.25 \text{ g} = \underline{\hspace{1cm}} \text{ mg}$

g.  $0.5 \text{ mi} = \underline{\hspace{1cm}} \text{ ft}$

b.  $\underline{\hspace{2cm}} \text{ fl oz} = 2.75 \text{ c}$

e.  $3.25 \text{ gal} = \underline{\hspace{2cm}} \text{ qt}$

h.  $7.9 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

c.  $\underline{\hspace{2cm}} \text{ mL} = 4.85 \text{ L}$

f.  $\underline{\hspace{1cm}} \text{ pt} = 16.5 \text{ qt}$

i.  $\underline{\hspace{1cm}} \text{ oz} = 4.5 \text{ lb}$

2. Cassidy figured out that she makes \$0.75 every minute at her job. She works 7 hours 15 minutes every day.
  - a. How many minutes does she work in 4 days?
  
  
  
  
  
  
  
  
  
  
  - b. How much will Cassidy earn in 4 days?

Samantha bought a new dresser to fit next to her bed. The dresser is 73 cm wide. She only has room for a piece of furniture that is 25 inches or less in width.

Will the dresser fit? One inch = 2.5 cm

Units \_\_\_\_\_ = \_\_\_\_\_





## Attachments

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19 Conversions.ppt

Metric Conversions - PickaGameConverting Mod.4-Day7.ppt

metric\_metconv.ppt

Metric Conversions Good.ppt