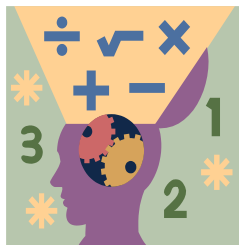


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### **Homework**

Greetings, Scholar and Parents! This week we begin the **final chapter – Chapter 16, Unit Conversions**. Students will be expected to convert **within, but not between** the Imperial and Metric Systems. Conversions are often conceptually challenging – but can be procedurally EASY! Seriously! Ask your kids about the conversion dance...

### **Extra Practice**

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL and see **“From Your Teacher”** section. These are recommended for reinforcement.

- [Convert customary units involving fractions](#)
- [Compare and convert customary units](#)
- [Multi-step problems with customary unit conversions](#)
- [Compare and convert metric units](#)
- [Convert metric units involving decimals](#)
- [Multi-step problems with metric unit conversions](#)
- [Multi-step problems with customary or metric unit conversions](#)

### **Notes**

**This homework assignment is due on Sunday, March 15<sup>th</sup>**. Students must prove and show all their work in the provide space. Scholars should use a separate sheet of paper if they need additional space. Failure to show work or packets submitted after the due date will result in a lower grade. If a scholar struggles with a lesson, they can review the daily lesson on HMH. Please feel free to contact me with any questions or concerns at [peter.vanegas@archimedean.org](mailto:peter.vanegas@archimedean.org).

<u>Monday</u>	March 9 <sup>th</sup>	16.1
<u>Tuesday</u>	March 10 <sup>th</sup>	16.2
<u>Wednesday</u>	March 11 <sup>th</sup>	16.3
<u>Thursday</u>	March 12 <sup>th</sup>	<b>STUDY GUIDE – DUE SUNDAY</b>
<u>Friday</u>	March 13 <sup>th</sup>	<b>MINI-QUIZ: UNIT CONVERSIONS</b>

# Solve Multi-step Customary Measurement Problems

Go Online

Interactive Examples

Solve.

1. A cable company has 5 miles of cable to install. How many 100-yard lengths of cable can be cut?

Think:  $1,760 \text{ yards} = 1 \text{ mile}$

So, the cable company has  $5 \times 1,760$ , or 8,800 yards of cable.

Divide.  $8,800 \div 100 = 88$

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88 lengths

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2. Afton makes chicken dishes for her neighbors. She bakes four 3-quart dishes. Then she gives 2 pints to each neighbor. How many neighbors can she take the chicken dish to?

3. A jar contains 26 fluid ounces of spaghetti sauce. How many cups of spaghetti sauce do 4 jars contain?

4. Coach Kent brings 3 quarts of sports drink to soccer practice. He gives the same amount of the drink to each of his 16 players. How many ounces of the drink does each player get?

5. Zola needs 324 inches of fringe to put around the edge of a tablecloth. The fringe comes in lengths of 10 yards. If Zola buys 1 package of fringe, how many feet of fringe will she have left over?

6. A company is shipping a case of bottled water to a store. There are 64 bottles of water in each case. If each water bottle holds  $3\frac{1}{2}$  cups of water, how many gallons of water are in a case of water?

## Problem Solving

7. A pitcher contains 40 fluid ounces of iced tea. Dharma pours 3 cups of iced tea. How many pints of iced tea are left in the pitcher?

8. Avel ties  $2\frac{1}{2}$  feet of ribbon onto one balloon. How many yards of ribbon does Avel need for 18 balloons?

## Lesson Check

10. Charu is buying curtains for her bedroom window. She wants the curtains to hang from the top of the window to the floor. The window is 4 feet high. The bottom of the window is  $2\frac{1}{2}$  feet above the floor. How many inches long should Charu's curtains be?
- 
11. Feroz buys 3 gallons of fertilizer for his lawn. After he finishes spraying the lawn, he has 1 quart of fertilizer left over. How many quarts of fertilizer did Feroz spray on the lawn?
-

# Solve Multi-step Metric Measurement Problems

Go Online

Interactive Examples

Convert.

1.  $16 \text{ m} = \frac{16,000}{\text{number of meters}} \text{ mm}$       2.  $6,500 \text{ cL} = \text{_____ L}$       3.  $15 \text{ cm} = \text{_____ mm}$

$\frac{\text{millimeters in 1 meter}}{1,000} \times 16 = 16,000$   
 $16 \text{ m} = 16,000 \text{ mm}$

4.  $3,200 \text{ L} = \text{_____ kL}$       5.  $12 \text{ L} = \text{_____ mL}$       6.  $200 \text{ cm} = \text{_____ m}$

7.  $70,000 \text{ m} = \text{_____ km}$       8.  $100 \text{ dL} = \text{_____ L}$       9.  $60 \text{ m} = \text{_____ mm}$

Compare. Write  $<$ ,  $>$ , or  $=$ .

10.  $900 \text{ cm} \bigcirc 9,000 \text{ mm}$       11.  $600 \text{ km} \bigcirc 5 \text{ m}$       12.  $5,000 \text{ cm} \bigcirc 5 \text{ m}$
13.  $18,000 \text{ L} \bigcirc 10 \text{ kL}$       14.  $8,456 \text{ mL} \bigcirc 9 \text{ L}$       15.  $2 \text{ m} \bigcirc 275 \text{ cm}$

## Problem Solving

16. Bria ordered 145 centimeters of fabric. Jayleen ordered 1.5 meters of fabric. Who ordered more fabric?
- \_\_\_\_\_
17. Ed fills his sports bottle with 1.2 liters of water. After his bike ride, he drinks 200 milliliters of the water. How much water is left in Ed's sports bottle?
- \_\_\_\_\_

## Lesson Check

19. Quan bought 8.6 meters of fabric. How many centimeters of fabric did he buy?

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20. Kem takes 2 centiliters of medicine. How many milliliters is this?

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# Solve Multi-step Measurement Problems

Go Online

Interactive Examples

Solve each problem by making a table.

1. Terrance is making soup. His soup pot holds 8 quarts of soup. How many 1-cup servings of soup will Terrance make?

32 1-cup servings

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Number of quarts	1	2	3	4	8
Number of cups	4	8	12	16	32

2. Rian has a water bottle that holds 2.5 liters of water. What is the volume of the water bottle in milliliters?

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3. Alex lives 500 yards from the park. How many inches does Alex live from the park?

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4. The art display case is 3,500 centimeters long. How many meters long is the display case?

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## Lesson Check

6. At the hairdresser, Jenny had 27 centimeters cut off her hair. How many decimeters of hair did Jenny have cut off?
7. Marcus needs 108 inches of wood to make a frame. How many feet of wood does Marcus need for the frame?

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## Grade 5 FAST Mathematics Reference Sheet

### Customary Conversions

1 foot = 12 inches  
 1 yard = 3 feet  
 1 mile = 5,280 feet  
 1 mile = 1,760 yards

1 cup = 8 fluid ounces  
 1 pint = 2 cups  
 1 quart = 2 pints  
 1 gallon = 4 quarts

1 pound = 16 ounces  
 1 ton = 2,000 pounds

### Time Conversions

1 minute = 60 seconds  
 1 hour = 60 minutes  
 1 day = 24 hours  
 1 week = 7 days

### Formulas

Rectangle  $P = l + l + w + w$   
 $P = 2l + 2w$   
 $A = l \times w$

Rectangular Prism  $V = l \times w \times h$   
 or  
 $V = B \times h$

### Metric Conversions

1 centimeter = 10 millimeters  
 1 meter = 100 centimeters  
 1 meter = 1000 millimeters  
 1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams  
 1 kilogram = 1000 grams

Key	
$l$ = length	$P$ = perimeter
$w$ = width	$A$ = area
$h$ = height	$V$ = volume
$B$ = area of the base	