### **North Penn School District**

# **Elementary Math Parent Letter**

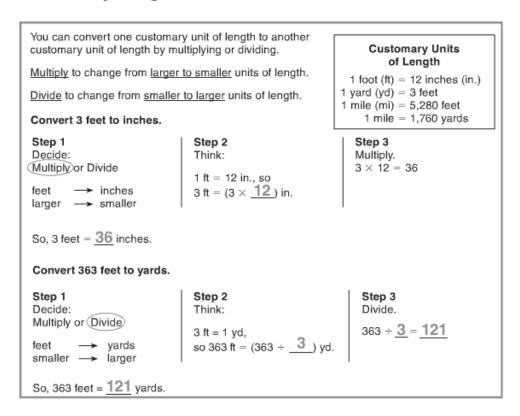
## Grade 5

# Unit 4 – Chapter 10: Convert Units of Measure

## **Examples for each lesson:**

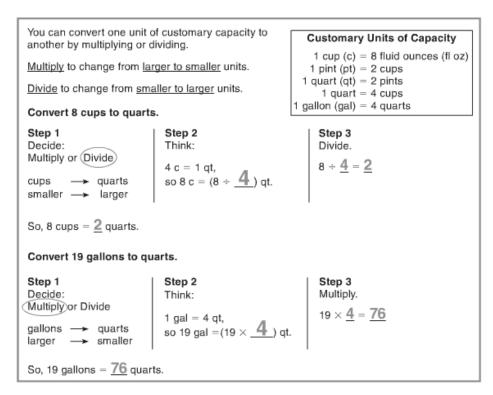
### Lesson 10.1

# **Customary Length**



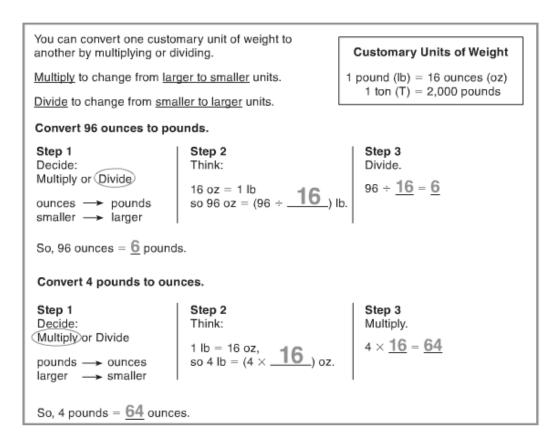
More information on this strategy is available on Animated Math Model #33.

# Customary Capacity



More information on this strategy is available on Animated Math Model #34.

# Weight



More information on this strategy is available on Animated Math Model #35.

## **Multistep Measurement Problems**

An ice cream parlor donated 6 containers of ice cream to a local elementary school. Each container holds 3 gallons of ice cream. If each student is served 1 cup of ice cream, how many students can be served?

Step 1 Record the information you are given.

There are 6 containers of ice cream.

Each container holds 3 gallons of ice cream.

Step 2 Find the total amount of ice cream in the 6 containers.

6 × 3 gallons = 18 gallons of ice cream

Step 3 Convert from gallons to cups.

There are 4 quarts in 1 gallon, so 18 gallons = 72 quarts.

There are 2 pints in 1 quart, so 72 quarts = 144 pints.

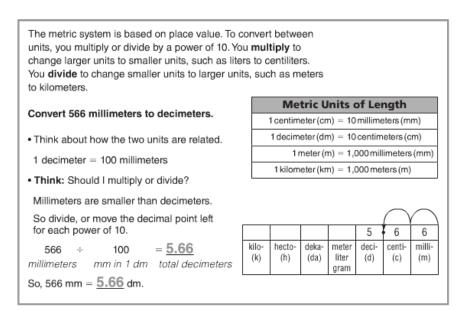
There are 2 cups in 1 pint, so 144 pints = 288 cups.

So, 288 students can be served 1 cup of ice cream.

More information on this strategy is available on Animated Math Models #33, 34, 35.

#### Lesson 10.5

## **Metric Measures**



More information on this strategy is available on Animated Math Models #36, 37.

# Problem Solving • Customary and Metric Conversions

You can use the strategy *make a table* to help you solve problems about customary and metric conversions.

Jon's faucet is dripping at the rate of 24 centiliters in a day. How many milliliters of water will have dripped from Jon's faucet in 24 hours?

#### Read the Problem

#### What do I need to find?

I need to find how many milliliters of water will have dripped from Jon's faucet in 24 hours.

#### What information do I need to use?

I need to use the number of cL that have dripped in 24 hr and the number of mL in a cL.

#### How will I use the information?

I will make a table to show the relationship between the number of <u>centiliters</u> and the number of <u>milliliters</u>

Conversion Table						
	L	dL	cL	mL		
1L	1	10	100	1,000		
1 dL	<u>1</u>	1	10	100		
1 cL	1100	<u>1</u>	1	10		
1 mL	1,000	1 100	1 10	1		

I can use the Conversion Table to find the number of milliliters in 1 centiliter.

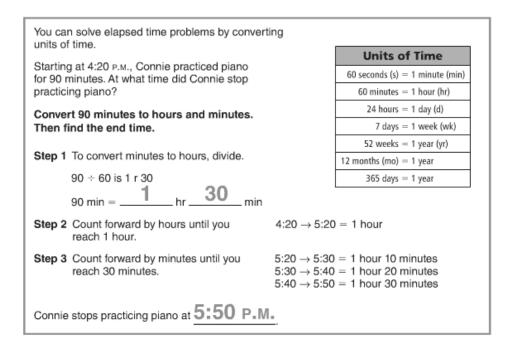
There are 10 milliliters in 1 centiliter.

cL	1	2	4	24
mL	10	20	40	240

So, 240 milliliters of water will have dripped from Jon's faucet in 24 hours.

More information on this strategy is available on Animated Math Models #33, 34.

# **Elapsed Time**



More information on this strategy is available on Animated Math Models #38, 39.

## **Vocabulary**

Capacity – the amount that a container can hold

**Decimeter** – a metric unit used to measure length or distance; 10 decimeters = 1 meter

**Dekameter** – a metric unit used to measure length or distance; 10 meters = 1 dekameter

Milligram – a metric unit used to measure mass; 1 milligram = 0.001 gram

Milliliter – a metric unit used to measure capacity; 1 milliliter = 0.001 liter

Millimeter – a metric unit used to measure length or distance; 1 millimeter = 0.001 meter