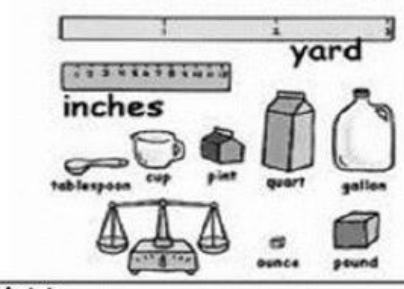
Pg 82 **Examples of measurement 6.9**

Customary

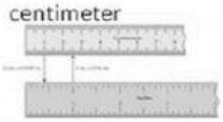


Metric

Liter gram centimeter









6.9 Basics **pg 83**

Capacity - A measure of the ability to receive, hold, or absorb volume.

Length - A measure used as a unit to estimate distances.

Weight - Weight is determined by the pull of gravity on the mass of an object. The weight of an object changes dependent on the gravitational pull at its location.

Mass - Mass is the amount of matter in an object. The mass of an object remains the same regardless of its location. In everyday life, most people are actually interested in determining an object's mass, although they use the term *weight*, as shown by the questions: "How much does it weigh?" versus "What is its mass?"

Volume –The amount of space that a three dimensional figure contains. Volume is expressed in cubic units, it tells you the number of cubes of a given size are used to fill the figure.

Area – The product of the length and the width ($A = l \times w$). The area of a triangle is one half of the measure of the base times the height:

$A = bh$, or $A = bh \div 2$.

Square Unit – Units used when measuring the area of a two-dimensional figure.

Key Vocabulary for 6.9

U. S. Customary System

length	weight/mass	liquid volume/ capacity
foot	mass	cup
inch	ounce	gallon
mile	pound	ounce
yard	weight	pint
	ton	quart

Metric System

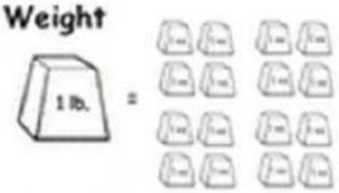
length	weight/mass	liquid volume/ capacity
centimeter	gram	liter
kilometer	kilogram	milliliter
meter	mass	
millimeter	weight	

Customary Units	Metric Units
1 inch	2.54 centimeters
1 foot	30.48 centimeters or 0.3048 meter
1 yard	0.914 meter
1 mile	1.609 kilometers
1 ounce	28.350 grams
1 pound	454 grams or 0.454 kilogram
1 fluid ounce	29.574 milliliters
1 quart	0.946 liter
1 gallon	3.785 liters

LIVEWORKSHEETS

MEASURE AND COMPARE

Weight



1 pound = 16 ounces

8 ounces of grapes weigh

A. 1 pound

B. 1/2 pound

C. 2 pounds



The kitten weighs **2 pounds**. How many ounces does it weigh?



_____ ounces

Which weighs more?

A. 12 ounces of oranges



B. 2 pounds of apples



Volume



1 quart = 4 cups



1 pint = 2 cups

How many pints are in **1 quart** of juice?

A. 2 pints

B. 3 pints

C. 4 pints



How many cups are in **2 quarts** of milk?

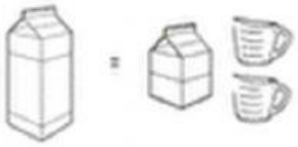
A. 6 cups

B. 10 cups

C. 8 cups

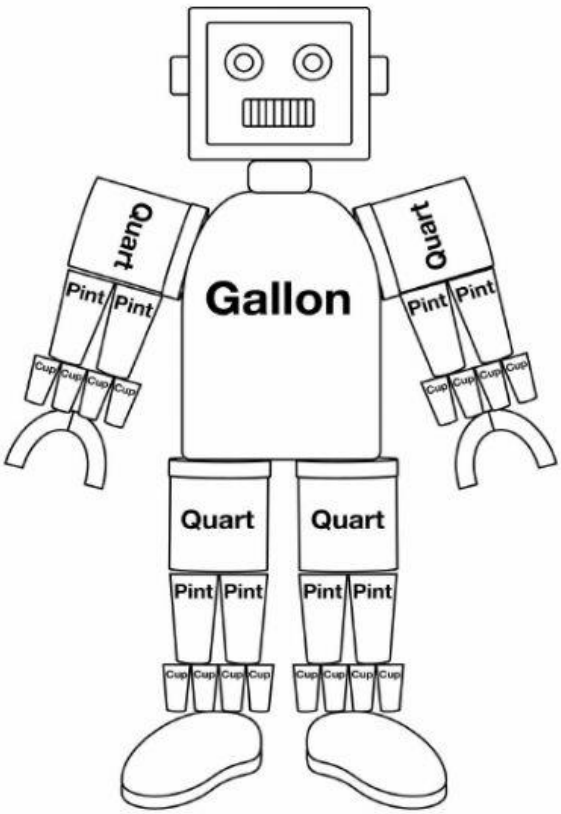


True or False



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LIVEWORKSHEETS

Name : _____ Score : _____

Teacher : _____ Date : _____

Converting English and Metric

1) _____ ounces = 10.5 grams

2) _____ mph = 14.5 kmph

3) 9.5 cubic yards = _____ cubic meters

4) _____ pounds = 4.5 kilograms

5) 8.5 fluid ounces = _____ milliliters

6) 20 square yards = _____ square meters

7) _____ teaspoons = 11.5 milliliters

8) _____ cups = 14 liters

9) _____ square inches = 3.5 square centimeters

10) _____ inches = 9 centimeters

11) 13.5 cubic feet = _____ cubic meters

12) 2 feet = _____ meters

13) 15 cubic inches = _____ milliliters

14) 25 cups = _____ liters

15) _____ teaspoons = 19 milliliters

16) _____ miles = 1 kilometers

17) 4 tablespoons = _____ milliliters

18) 22 tablespoons = _____ milliliters

19) _____ gallons = 13 liters

20) 6 gallons = _____ liters

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LIVEWORKSHEETS