Name:	 Date:	 Class:	
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Conversion Between US Customary Units & Metric Systems Sheet

A conversion factor is a way to represent the same quantity using different units of measurement with their corresponding numerical values. Often the units are abbreviated.

Write the abbreviation for each unit:

1)	Teaspoon	8) Milliliter
2)	Tablespoon	9) Liter
3)	Cup	10) Gram
4)	Quart	11) Milligram
5)	Gallon	12) Kilogram
6)	Ounces	13) Pint
7١	Pounds	

Kitchen math often requires converting quantities. The following examples show how to use conversion factors in equations. The following tables provide the conversion factors to convert from metric to US customary units or US customary units to metric.

Example conversion

- 236.9ml (1 cup) beet juice 100% juice, no sugar added
- 28.3g (2 tbsp) gelatin

To Convert Cups into Milliliters

To Convert Tablespoons into Grams

Convert 1 C into Milliliters

Convert 2 Tablespoons into Grams

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Tables for Conversion Factors

Table 1. From Metric to US Customary Units

To Obtain	Multiply	Conversion Factor	Conversion Unit
Teaspoons	Milliliters	0.202884136	Milliliters/Teaspoons
Tablespoons	Milliliters	0.0676280454	Milliliters/Tablespoons
Tablespoons	Grams	0.0782368	Grams/Tablespoons
Cups	Liters	4.22675284	Liters/Cups
Quarts	Liters	1.05668821	Liters/Quarts
Gallons	Liters	0.2641720524	Liters/Gallons
Ounces	Grams	0.03527396195	Grams/Ounces
Pounds	Kilograms	2.204622622	Kilograms/Pounds

Table 2. From US Customary Units to Metric

To Obtain	Multiply	Conversion	Conversion Unit
		Factor	
Milliliters	Fluid Ounces	29.57352956	Ounces/Milliliters
Milliliters	Teaspoons	4.92892159	Teaspoons/Milliliters
Milliliters	Tablespoons	14.7867648	Tablespoons/Milliliters
Milliliters	Cups	236.588	Cups/Milliliters
Liters	Cups	0.236588236	Cups/Liters
Liters	Quarts	0.946352946	Quarts/Liters
Liters	Gallons	3.785411784	Galloons/Liters
Grams	Tablespoons	14.15	Tablespoons/Grams
Grams	Ounces	28.34952313	Ounces/Grams
Kilograms	Pounds	0.45	Pounds/Kilograms

Table 3. Metric Units of Mass and Volume

Unit	Abbreviation	Meaning
mega-	М	10 ⁶
kilo-	k	10 ³
hecto-	h	10 ²
deca-	dk	10 ¹
deci-	d	10 ⁻¹
centi-	С	10-2
milli-	m	10 ⁻³
micro-	?	10 ⁻⁶
nano-	n	10 ⁻⁹

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Practice	e by converting:			
1.	20 teaspoons of a liquid to milliliters.			
2.	5 milliliters of a liquid to teaspoons			
3.	5 ounces of a powder to grams			
4.	2 grams of powder to ounces.			
5.	2 cups of a liquid into milliliters			
6.	5 grams to tablespoons.			
7.	10 tablespoons to grams.			
8.	1 pound to kilograms			
9.	1 kilogram to pounds.			
10.	1 liter to cups			