

Measurement

Conversion Table

Conversion Rule

Use the equivalent measures and multiply or divide.

Examples

To change inches to centimeters:

$$12 \times 2.54 = 30.48 \text{ cm}$$

number of inches number of centimeters in one inch

To change centimeters to inches:

$$51 \div 2.54 = 20.08 \text{ in}$$

number of centimeters number of centimeters in one inch

U.S. Customary

in = inch
ft = foot
yd = yard
mi = mile
fl oz = fluid ounce
pt = pint
qt = quart
gal = gallon
oz = ounce
lb = pound

Metric

mm = millimeter
cm = centimeter
m = meter
km = kilometer
ml = milliliter
l = liter
g = gram
kg = kilogram

Abbreviations

Capacity



$$1 \text{ fl oz} = 29.574 \text{ ml} \quad 1 \text{ ml} = .034 \text{ fl oz}$$

$$1 \text{ pt} = .473 \text{ l} \quad 1 \text{ l} = 2.113 \text{ pt}$$

$$1 \text{ qt} = .946 \text{ l} \quad 1 \text{ l} = 1.057 \text{ qt}$$

$$1 \text{ gal} = 3.785 \text{ l} \quad 1 \text{ l} = .264 \text{ gal}$$

Length and Distance

$$1 \text{ in} = 2.54 \text{ cm} \quad 1 \text{ mm} = .039 \text{ in}$$

$$1 \text{ ft} = 30.48 \text{ cm} \quad 1 \text{ cm} = .394 \text{ in}$$

$$1 \text{ yd} = .914 \text{ m} \quad 1 \text{ m} = 1.094 \text{ yd}$$

$$1 \text{ mi} = 1.609 \text{ km} \quad 1 \text{ km} = .621 \text{ mi}$$

Weight

$$1 \text{ oz} = 28.350 \text{ g} \quad 1 \text{ g} = .035 \text{ oz}$$

$$1 \text{ lb} = .454 \text{ kg} \quad 1 \text{ kg} = 2.205 \text{ lb}$$

$$1 \text{ ton} = .907 \text{ metric tons}$$

$$1 \text{ metric ton} = 1.102 \text{ tons}$$



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Liquid Measure

8 ounces =	1 cup
2 cups =	1 pint
16 ounces =	1 pint
4 cups =	1 quart
1 gill =	1/2 cup or 1/4 pint
2 pints =	1 quart
4 quarts =	1 gallon
31.5 gal. =	1 barrel

3 tsp =	1 tbsp
2 tbsp =	1/8 cup or 1 fluid ounce
4 tbsp =	1/4 cup
8 tbsp =	1/2 cup
1 pinch =	1/8 tsp or less
1 tsp =	60 drops

Conversion of US Liquid Measure to Metric System

1 fluid oz. =	29.573 milliliters
1 cup =	230 milliliters
1 quart =	.94635 liters
1 gallon =	3.7854 liters
.033814 fluid ounce =	1 milliliter
3.3814 fluid ounces =	1 deciliter
33.814 fluid oz. or 1.0567 qt. =	1 liter

Dry Measure

2 pints =	1 quart
4 quarts =	1 gallon
8 quarts =	2 gallons or 1 peck
4 pecks =	8 gallons or 1 bushel
16 ounces =	1 pound
2000 lbs. =	1 ton

Conversion of US Weight and Mass Measure to Metric System

.0353 ounces =	1 gram
1/4 ounce =	7 grams
1 ounce =	28.35 grams
4 ounces =	113.4 grams
8 ounces =	226.8 grams
1 pound =	454 grams
2.2046 pounds =	1 kilogram
.98421 long ton or 1.1023 short tons =	1 metric ton

Linear Measure

12 inches =	1 foot
3 feet =	1 yard
5.5 yards =	1 rod
40 rods =	1 furlong
8 furlongs (5280 feet) =	1 mile
6080 feet =	1 nautical mile

Conversion of US Linear Measure to Metric System

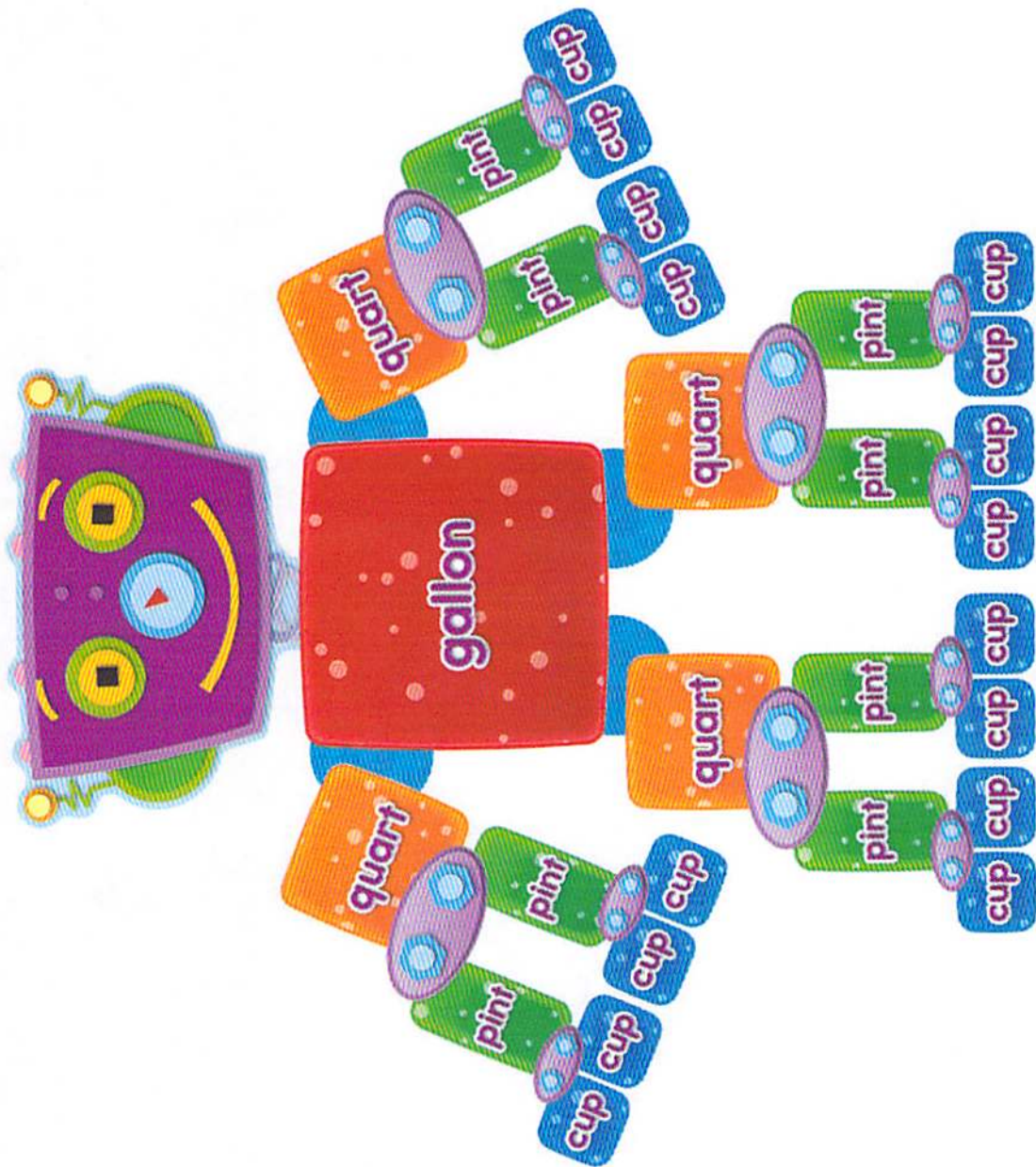
1 inch =	2.54 centimeters
1 foot =	.3048 meters
1 yard =	.9144 meters
1 mile =	1609.3 meters or 1.6093 kilometers
.03937 in. =	1 millimeter
.3937 in. =	1 centimeter
3.937 in. =	1 decimeter
39.37 in. =	1 meter
3280.8 ft. or .62137 miles =	1 kilometer

To convert a Fahrenheit temperature to Centigrade,
do the following:

- a. Subtract 32 b. Multiply by 5 c. Divide by 9

To convert Centigrade to Fahrenheit, do the following:

- a. Multiply by 9 b. Divide by 5 c. Add 32





Liquid Measurement

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P P P P P P P P

Q Q Q Q

Half-gallon Half-gallon

Gallon