

Lesson Summary

Conversion tables contain ratios that can be used to convert units of length, weight, or capacity. You must multiply the given number by the ratio that compares the two units.

Problem Set

1. 7 ft. = _____ in.
2. 100 yd. = _____ ft.
3. 25 m = _____ cm
4. 5 km = _____ m
5. 96 oz. = _____ lb.
6. 2 mi. = _____ ft.
7. 2 mi. = _____ yd.
8. 32 fl. oz. = _____ c.
9. 1,500 mL = _____ L
10. 6 g = _____ mg
11. Beau buys a 3-pound bag of trail mix for a hike. He wants to make one-ounce bags for his friends with whom he is hiking. How many one-ounce bags can he make? _____
12. The maximum weight for a truck on the New York State Thruway is 40 tons. How many pounds is this? _____
13. Claudia's skis are 150 centimeters long. How many meters is this? _____
14. Claudia's skis are 150 centimeters long. How many millimeters is this? _____
15. Write your own problem, and solve it. Be ready to share the question tomorrow.

U.S. Customary Length	Conversion
Inch (in.)	$1 \text{ in.} = \frac{1}{12} \text{ ft.}$
Foot (ft.)	$1 \text{ ft.} = 12 \text{ in.}$
Yard (yd.)	$1 \text{ yd.} = 3 \text{ ft.}$ $1 \text{ yd.} = 36 \text{ in.}$
Mile (mi.)	$1 \text{ mi.} = 1,760 \text{ yd.}$ $1 \text{ mi.} = 5,280 \text{ ft.}$

Metric Length	Conversion
Centimeter (cm)	$1 \text{ cm} = 10 \text{ mm}$
Meter (m)	$1 \text{ m} = 100 \text{ cm}$ $1 \text{ m} = 1,000 \text{ mm}$
Kilometer (km)	$1 \text{ km} = 1,000 \text{ m}$

U.S. Customary Weight	Conversion
Pound (lb.)	$1 \text{ lb.} = 16 \text{ oz.}$
Ton (T.)	$1 \text{ T.} = 2,000 \text{ lb.}$

Metric Capacity	Conversion
Liter (L)	$1 \text{ L} = 1,000 \text{ ml}$
Kiloliter (kL)	$1 \text{ kL} = 1,000 \text{ L}$

U.S. Customary Capacity	Conversion
Cup (c.)	$1 \text{ c.} = 8 \text{ fluid ounces}$
Pint (pt.)	$1 \text{ pt.} = 2 \text{ c.}$
Quart (qt.)	$1 \text{ qt.} = 4 \text{ c.}$ $1 \text{ qt.} = 2 \text{ pt.}$ $1 \text{ qt.} = 32 \text{ fluid ounces}$
Gallon (gal.)	$1 \text{ gal.} = 4 \text{ qt.}$ $1 \text{ gal.} = 8 \text{ pt.}$ $1 \text{ gal.} = 16 \text{ c.}$ $1 \text{ gal.} = 128 \text{ fluid ounces}$

Metric Mass	Conversion
Gram (g)	$1 \text{ g} = 1,000 \text{ mg}$
Kilogram (kg)	$1 \text{ kg} = 1,000 \text{ g}$