

Name \_\_\_\_\_

Date \_\_\_\_\_

## Getting the Job Done—Speed, Work, and Measurement Units

Jill and Erika made 4 gallons of lemonade for their lemonade stand. How many quarts did they make? If they charge \$2.00 per quart, how much money will they make if they sell it all?

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.

Jill and Erika made 4 gallons of lemonade for their lemonade stand. How many quarts did they make? If they charge \$2.00 per quart, how much money will they make if they sell it all?

*The conversion rate is 4 quarts per gallon.*

$$\frac{4 \text{ quarts}}{1 \text{ gallon}} \cdot \frac{4 \text{ gallons}}{1} = \frac{4 \text{ quarts} \cdot 4}{1 \cdot 1} = 16 \text{ quarts}$$

$$16 \text{ quarts} \times \frac{\$2.00}{\text{quart}} = \$32 \text{ in sales}$$

- 7 ft. = 84 in.
- 100 yd. = 300 ft.
- 25 m = 2,500 cm
- 5 km = 5,000 m
- 96 oz. = 6 lb.
- 2 mi. = 10,560 ft.
- 2 mi. = 3,520 yd.
- 32 fl. oz. = 4 c.
- 1,500 mL = 1.5 L
- 6 g = 6,000 mg
- 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?  
*48 bags*
- The maximum weight for a truck on the New York State Thruway is 40 tons. How many pounds is this?  
*80,000 lb.*
- Claudia's skis are 150 centimeters long. How many meters is this?  
*1.5 m*
- Claudia's skis are 150 centimeters long. How many millimeters is this?  
*1,500 mm*
- Write your own problem and solve it. Be ready to share the question tomorrow.  
*Answers will vary.*

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

Metric Length	Conversion
Centimeter (cm)	1 cm = 10 mm
Meter (m)	1 m = 100 cm 1 m = 1,000 mm
Kilometer (km)	1 km = 1,000 m

U.S. Customary Weight	Conversion
Pound (lb.)	1 lb. = 16 oz.
Ton (T.)	1 T. = 2,000 lb.

Metric Capacity	Conversion
Liter (L)	1 L = 1,000 ml
Kiloliter (kL)	1 kL = 1,000 L

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

Metric Mass	Conversion
Gram (g)	1 g = 1,000 mg
Kilogram (kg)	1 kg = 1,000 g