

# Convert Between Customary and Metric

<b>EASY ballpark figures:</b> 1 m $\approx$ ____ yd 1 L $\approx$ ____ qt 1 kg $\approx$ ____ lb	<b>Good to remember also:</b> 1 in $\approx$ 2.5 cm 1 mi $\approx$ 1.6 km (4 laps on a 400-m track) 1 oz $\approx$ 30 g	<b>Exact science:</b> 1 yard = 0.9144 m 1 foot = 0.3048 m 1 quart = 0.946 L 1 inch = 2.54 cm 1 ounce = 28.35 g 1 lb = 0.45 kg
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1. Find the measurements that are CLOSE to each other.

<b>a.</b> 1 inch 1 cm 2.5 cm 5 cm	<b>b.</b> 1 foot 5 cm 10 cm 30 cm	<b>c.</b> 1 mile 1.5 km 2.5 km 3.5 km	<b>d.</b> 1 qt 1 L 100 mL 2.5 L
<b>e.</b> 2 kg 2 lb 4 lb 6 lb	<b>f.</b> 1 m 12 in 3 ft 3 yd	<b>g.</b> 1 cup 5 mL 30 mL 240 mL	<b>h.</b> 1 gal 4 L 6 L 8 L

2. Which is more?

- a.** 1 cm      1 in      **b.** 1 L      1 qt      **c.** 1 kg      1 lb      **d.** 1 g      1 oz  
**e.** 4 in      20 cm      **f.** 5 kg      20 lb      **g.** 3 gal      2 L      **h.** 7 m      4 ft

3. Convert between the units. Use a calculator when needed.

- a.** 1 cm = \_\_\_\_ in      **b.** 1 m = \_\_\_\_ yd      **c.** 1 L = \_\_\_\_ qt      **d.** 1 kg = \_\_\_\_ lb  
 25 cm = \_\_\_\_ in      5.4 m = \_\_\_\_ ft      4.6 L = \_\_\_\_ qt      0.568 kg = \_\_\_\_ lb  
 5 in = \_\_\_\_ cm      30 ft = \_\_\_\_ m      1 gal = \_\_\_\_ L      75 lb = \_\_\_\_ kg  
 10 in = \_\_\_\_ cm      22 ft = \_\_\_\_ m      3 1/2 qt = \_\_\_\_ L      8.5 lb = \_\_\_\_ kg

4. In the U.S., a common speed limit is 55 miles per hour. Does this correspond (approximately) to a European speed limit of a) 40 km/h   b) 60 km/h   c) 80 km/h ?

5. A typical student ruler is 12 inches long. How long would it be in centimeters?

6. On the bottom of a food container you can often read its capacity. One such container said 64 oz. Is it bigger than one that is 2.2 L? If so, how much larger? If not, how much smaller?

7. Angela weighs 56 kg, Theresa weighs 128 lb, Judie weighs 137 lb, and Elizabeta weighs 60 kg. Write the girls in order from lightest to heaviest.

8. 1 marathon is 26.21875 miles. How long is a half-marathon in kilometers?