

Convert Between Customary and Metric

EASY ballpark figures: 1 m \approx ____ yd 1 L \approx ____ qt 1 kg \approx ____ lb	Good to remember also: 1 in \approx 2.5 cm 1 mi \approx 1.6 km (4 laps on a 400-m track) 1 oz \approx 30 g	Exact science: 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.

a. 1 inch 1 cm 2.5 cm 5 cm	b. 1 foot 5 cm 10 cm 30 cm	c. 1 mile 1.5 km 2.5 km 3.5 km	d. 1 qt 1 L 100 mL 2.5 L
e. 2 kg 2 lb 4 lb 6 lb	f. 1 m 12 in 3 ft 3 yd	g. 1 cup 5 mL 30 mL 240 mL	h. 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 25 cm = ____ in 5 in = ____ cm 10 in = ____ cm	b. 1 m = ____ yd 5.4 m = ____ ft 30 ft = ____ m 22 ft = ____ m	c. 1 L = ____ qt 4.6 L = ____ qt 1 gal = ____ L 3 1/2 qt = ____ L	d. 1 kg = ____ lb 0.568 kg = ____ lb 75 lb = ____ kg 8.5 lb = ____ kg
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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 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 Elizabeth weighs 60 kg. Write the girls in order from the lightest to the heaviest.

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