

# Chapter 2 Review

**Hint**

1 ft = 12 in.  
1 yd = 3 ft  
1 mi = 1760 yd

1. Express each measurement in the units given.

- a) 6 ft = \_\_\_\_\_ in.      d) 5 yd 2 ft = \_\_\_\_\_ in.  
b)  $3\frac{1}{2}$  ft = \_\_\_\_\_ in.      e) 2.5 mi = \_\_\_\_\_ ft  
c) 2 yd 1 ft = \_\_\_\_\_ ft      f)  $10\frac{1}{4}$  mi = \_\_\_\_\_ yd

2. Express each measurement in the units given.

- a) 15 cm = \_\_\_\_\_ mm      d) 812 mm = \_\_\_\_\_ cm  
b) 2.5 m = \_\_\_\_\_ cm      e) 115.6 cm = \_\_\_\_\_ m  
c) 1.25 km = \_\_\_\_\_ m      f) 2190 dam = \_\_\_\_\_ km

3. Estimate each measure.

- a) the length of a car in feet \_\_\_\_\_  
b) the height of a calculator in inches \_\_\_\_\_  
c) the height of a door in yards \_\_\_\_\_  
d) the diameter of a ring in millimetres \_\_\_\_\_  
e) the depth of a coffee cup in centimetres \_\_\_\_\_

4. Find a rectangular object you can measure.

- a) What is the object? \_\_\_\_\_  
b) Measure the rectangle. Use both imperial and SI units.  
Record the results in the chart.

|          | Imperial units | SI units |
|----------|----------------|----------|
| length   |                |          |
| width    |                |          |
| diagonal |                |          |

5. Express each measurement to one decimal place.

- a) 12 in. = \_\_\_\_\_ cm      d) 50 m  $\div$  \_\_\_\_\_ ft  
b) 4 ft  $\div$  \_\_\_\_\_ m      e) 85 km  $\div$  \_\_\_\_\_ mi  
c) 12 mi  $\div$  \_\_\_\_\_ km      f) 215 mm  $\div$  \_\_\_\_\_ in.

**Imperial to SI**

1 in. = 2.54 cm  
1 ft  $\div$  0.31 m  
1 yd  $\div$  0.91 m  
1 mi  $\div$  1.61 km

6. The base of a flower pot has a diameter of 10 cm.  
 a) Without measuring, draw a line you think is about 10 cm long.

- b) Measure the length of the line. \_\_\_\_\_ cm  
 c) Show how to find the midpoint of the line you drew.

7. Ayden is a pilot at the Steinbach Airport. Her instruments show that she is flying at an altitude of 1675 m. What is the plane's altitude in miles? Round to the nearest hundredth.

| SI to Imperial          |
|-------------------------|
| 1 mm $\doteq$ 0.039 in. |
| 1 cm $\doteq$ 0.39 in.  |
| 1 m $\doteq$ 3.27 ft    |
| 1 km $\doteq$ 0.62 mi   |

8. The St. Elias Mountains in Yukon are the highest mountain range in Canada.
- Mt. Wood is 4880 m high.
  - Mt. Vancouver is 15 787 ft high.

Which mountain is higher? How much higher is it?

9. Jessie installs custom windows in Yorkton. An office window will be 277 cm long and 100 cm wide. What are the length and width in imperial units?

length:

width: