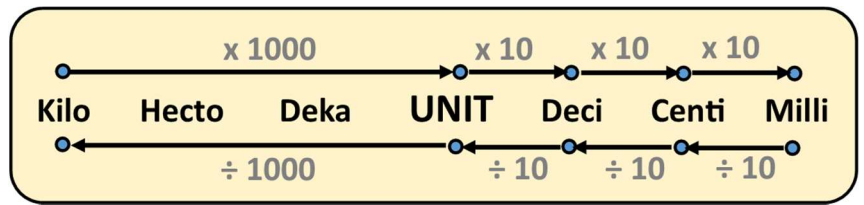


Metric units can be converted from one unit to another. Use the chart to determine your starting unit and your ending unit. Then decide whether you are going from Larger units to Smaller units or vice versa and use either multiplication or division to solve.



1. Convert the following metric units to the unit named in brackets.

- |                                 |                              |                                 |
|---------------------------------|------------------------------|---------------------------------|
| a) 144 mm = _____ (centimetres) | b) 53 kg = _____ (grams)     | c) 144 ml = _____ (litres)      |
| d) 8500 cg = _____ (kilograms)  | e) 0.475 km = _____ (metres) | f) 945 cm = _____ (millimetres) |
| g) 0.6 g = _____ (milligrams)   | h) 3000 ml = _____ (litres)  | i) 320 mm = _____ (centimetres) |

2. MoonCents Coffee Cafe buys coffee beans in large sacks of 20.75 kg. They then resell the beans in smaller packages of 250 g. Calculate the number of smaller packages that can be filled from:

- a) \_\_\_\_\_ one large sack of coffee beans.

If a palette of 15 large sacks are being placed on a boat to be shipped, what is the weight of the palette:

- b) \_\_\_\_\_ in kilograms      c) \_\_\_\_\_ in grams.

3. Anthon is building a shed and needs 55 planks of wood, each 3.55 m long. Calculate:

- a) \_\_\_\_\_ the length of one plank (in **cm**)  
 b) \_\_\_\_\_ the total length Anthon needs (in **m**):  
 c) \_\_\_\_\_ the total length Anthon needs (in **cm**):  
 How many lengths of 5cm can be cut from:  
 d) \_\_\_\_\_ one plank      e) \_\_\_\_\_ 55 planks

4. Convert the following metric units as indicated.

- |                        |                        |                      |
|------------------------|------------------------|----------------------|
| a) 1740 cm = _____ m   | b) 3000 mL = _____ cL  | c) 5.5 g = _____ mg  |
| d) 34,500 mg = _____ g | e) 14,500 mm = _____ m | f) 210 cL = _____ mL |
| g) 0.035 kL = _____ L  | h) 9510 g = _____ kg   | i) 5.05 m = _____ cm |

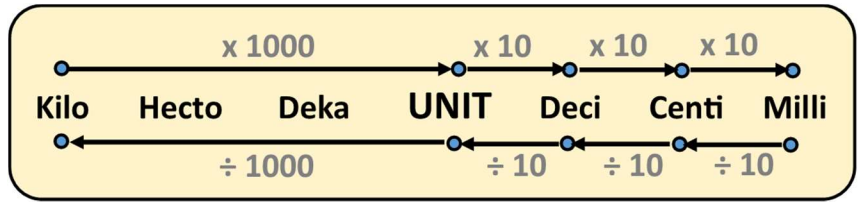
5. Convert the following metric units as indicated.

- |                      |                       |                      |
|----------------------|-----------------------|----------------------|
| a) _____ mg = 9 g    | b) _____ L = 603 mL   | c) _____ mm = 6.62 m |
| d) _____ cm = 20 m   | e) _____ g = 0.05 kg  | f) _____ L = 8.1 kL  |
| g) _____ kL = 7500 L | h) _____ mm = 71.05 m | i) _____ mg = 1.5 cg |

6. Circle the correct conversion in each question.

- |                       |          |           |            |            |
|-----------------------|----------|-----------|------------|------------|
| a) 402 m to cm        | i) 40.2  | ii) 4,020 | iii) 4.02  | iv) 40,200 |
| b) 8.5 kg to g        | i) 850   | ii) 8,500 | iii) 0.85  | iv) 85,000 |
| c) 0.05 cm to mm      | i) 0.5   | ii) 0.005 | iii) 50    | iv) 5      |
| d) 1,005 mL to L      | i) 1.005 | ii) 10.05 | iii) 100.5 | iv) 10,050 |
| e) 12.5 mg to g       | i) 125   | ii) 1.25  | iii) 0.125 | iv) 0.0125 |
| f) 9,000,000 mL to kL | i) 9,000 | ii) 90    | iii) 9     | iv) 900    |

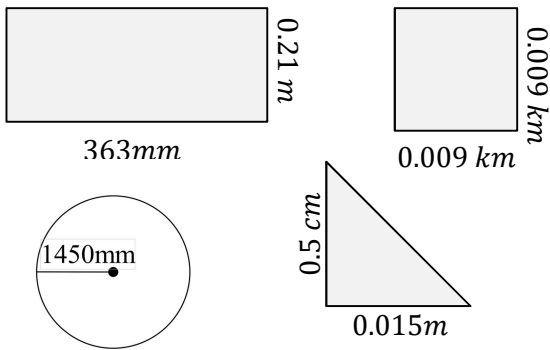
Metric units can be converted from one unit to another. Use the chart to determine your starting unit and your ending unit. Then decide whether you are going from Larger units to Smaller units or vice versa and use either multiplication or division to solve.



1. Convert the following metric units to the unit named in brackets.

- a) 5 mm = \_\_\_\_\_ (metres)
- b) 29 g = \_\_\_\_\_ (kilograms)
- c) 72.6 ml = \_\_\_\_\_ (litres)
- d) 570 cg = \_\_\_\_\_ (grams)
- e) 2.05 km = \_\_\_\_\_ (metres)
- f) 470.4 m = \_\_\_\_\_ (kilometres)
- g) 44.5 mg = \_\_\_\_\_ (grams)
- h) 7,200 ml = \_\_\_\_\_ (litres)
- i) 40 cm = \_\_\_\_\_ (millimetres)

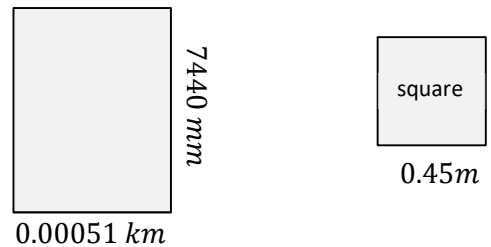
2. Use the following shapes to answer the questions that follow.



Write the following lengths in the measurement in brackets.

- a) \_\_\_\_\_ width of the rectangle (**mm**)
- b) \_\_\_\_\_ height of the triangle (**m**)
- c) \_\_\_\_\_ length of the circle's radius (**cm**)
- d) \_\_\_\_\_ width of the square (**cm**)
- e) \_\_\_\_\_ diameter of the circle (**m**)
- f) \_\_\_\_\_ area of the rectangle (**m**)
- g) \_\_\_\_\_ area of the triangle (**m**)
- h) \_\_\_\_\_ length of the rectangle (**km**)
- i) \_\_\_\_\_ area of the square (**m**)
- j) \_\_\_\_\_ height of the triangle (**mm**)

3. Use the following shapes to answer the questions that follow.



Convert the following to **centimetres**:

- a) \_\_\_\_\_ width of the rectangle
- b) \_\_\_\_\_ length of the rectangle
- c) \_\_\_\_\_ width of the square

Find the area of the following in meters squared:

- d) \_\_\_\_\_ rectangle
- e) \_\_\_\_\_ square

Which shape has the larger area?

\_\_\_\_\_

4. Convert the following metric units as indicated.

- a) 110 cm = \_\_\_\_\_ mm
- b) 4.2 L = \_\_\_\_\_ mL
- c) 0.002 kg = \_\_\_\_\_ mg
- d) 0.008 g = \_\_\_\_\_ cg
- e) 430,500 mm = \_\_\_\_\_ cm
- f) 0.8 L = \_\_\_\_\_ kL
- g) 0.92 mL = \_\_\_\_\_ cL
- h) 950 mg = \_\_\_\_\_ cg
- i) 0.062 km = \_\_\_\_\_ cm