

Metric Measurements

Learning Goals

- identify the uses of different measurements
- identify metric measurements
- identify symbols of metric measurements
- convert between different units of measurements

List units of **METRIC** measurements with their symbols.

Length

cm

mm

m

km

um

Volume

L

mL

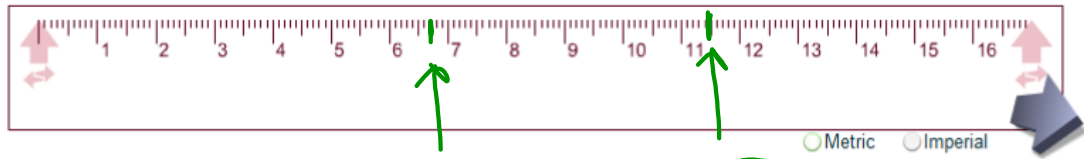
Weight

mg

g

kg

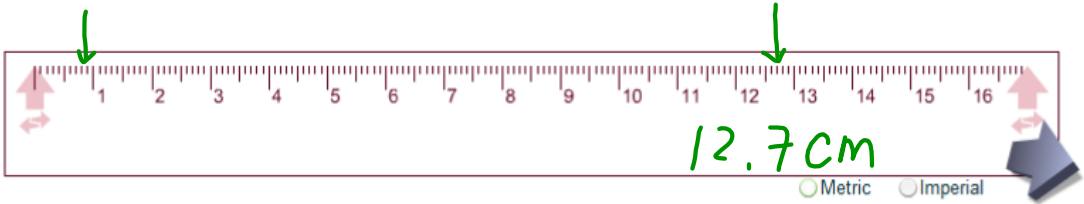
Metric Measurements



6.7 cm

11.5 cm

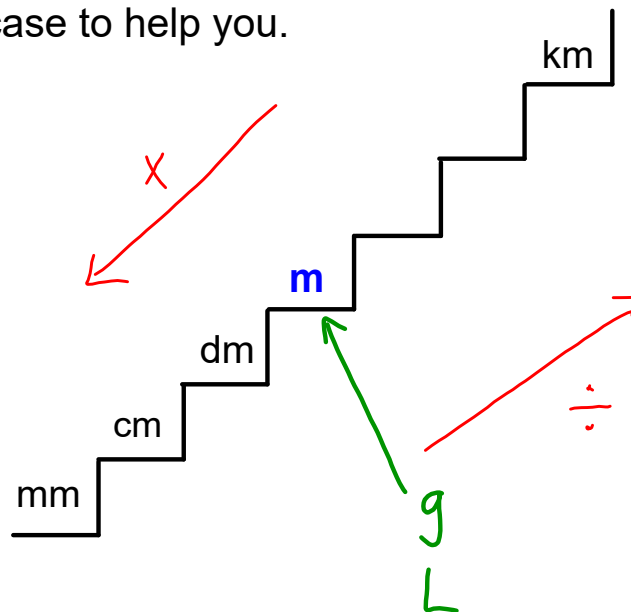
0.8 cm



12.7 cm

Metric conversions

Use a staircase to help you.



Convert

1 m = 100 cm

3.4 m = 3400 mm

1.00
5 m 46 cm = 546 cm

3.4
7 cm 9 mm = 79 mm

5.00

7. = 70 mm

27844 m = 27.844 km

4597 cm = 0.04597 km

2.4 km = 2400 m

70 dm = 700 cm

2.4

70

Measure the items to fill out the chart.

Item	Width (cm)	Length (cm)
iPad		
Desk		
Tile on floor		
Pencil		
Pencil case		
Binder		

Item	Width (m and cm)	Convert to cm	Length (m and cm)	Convert to cm
White board				
Window				
Door				

1. How many desks would you need to have to line them up on the longest side of the classroom?

$$\frac{\# \text{ of tiles (length of tile)}}{\text{length of desk}} = \frac{34(30.5)}{59.7} = 17.37$$

2. How many white boards (smaller) would fit on the back wall side by side?

$$\frac{\text{length of wall}}{\text{length of board}} = \frac{30(30.5)}{183.5} = 4.986$$

Seatwork - Handout

1. State which metric **unit** would be most appropriate to measure the:

a) distance from Barrhaven to Niagara Falls

km

b) length of a calculator.

cm

c) length of a tennis court.

m

d) thickness of a penny.

mm

e) weight of a bag of flour

kg

f) mass of a vitamin

g or mg

g) volume of small water bottle

mL

2. Circle the most suitable estimate for each of the following.

a) the length of a pencil

14 mm

14 cm

0.014 m

b) the capacity of a soup bowl

2.5 mL

25 mL

250 mL

c) the capacity of a juice jug

2 mL

2 L

20 L

d) the weight of a newborn baby

30 g

3 kg

300 g

e) the height of the CN tower

55 m

550 m

5500 m

f) the diameter of a pop can

65 cm

65 mm

0.0065 m

3. Convert each of the following

a) 13 m = 1300 cm

c) 1 kL = 1 000 000 mL

d) 0.45 m = 450 mm

e) 100 km = 100 000 m

f) 200 m = 20 000 cm

g) 3.68 kg = 3680 g