

01.02.21

L.O. I can multiply and divide by 10,100,1000.



We are going to complete a number of problems where we are going to multiply and divide a range of numbers by 10, 100 and 1000. First we need to remind ourselves of the rules we need to follow.

Tth    th    h    t    u                      •     $\frac{1}{10}$      $\frac{1}{100}$      $\frac{1}{1000}$

If we are multiplying by 10, 100 or 1000 the digits shift to the  by

x10 =     x100 =     x1000 =

If we are dividing by 10, 100 or 1000 the digits shift to the  by

10 =     100 =     1000 =

## Decimal Place Value Chart

M	HTh	TTh	Th	H	T	O	●	t	h	th	tth	hth	m
							●						
							●						
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	●	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths

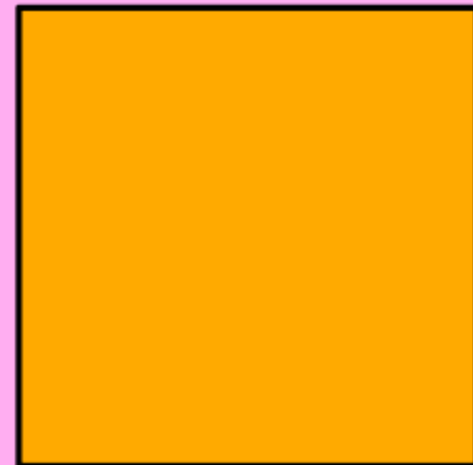
Can you work out what  $26 \times 10$  is?

We need to move the digits one place to the



h      t      u

2      6

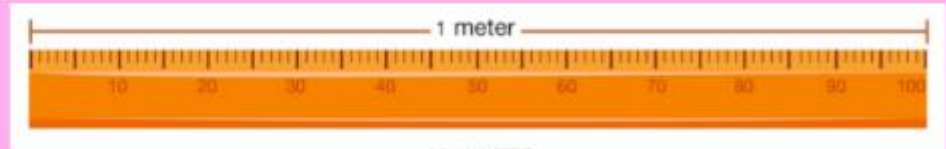


See if you can work out what we have done to each number in the following number chains.

- |                 |               |               |                |              |
|-----------------|---------------|---------------|----------------|--------------|
| a) 26           | 2600          | 260           | $2 \cdot 6$    | 26           |
| b) 3459         | $34 \cdot 59$ | $3 \cdot 459$ | $345 \cdot 9$  | 34590        |
| c) 1200         | 120           | 120000        | 1200           | $1 \cdot 2$  |
| d) $0 \cdot 34$ | 34            | 3400          | $3 \cdot 4$    | 34           |
| e) 156          | 1560          | $1 \cdot 56$  | $0 \cdot 0156$ | $15 \cdot 6$ |

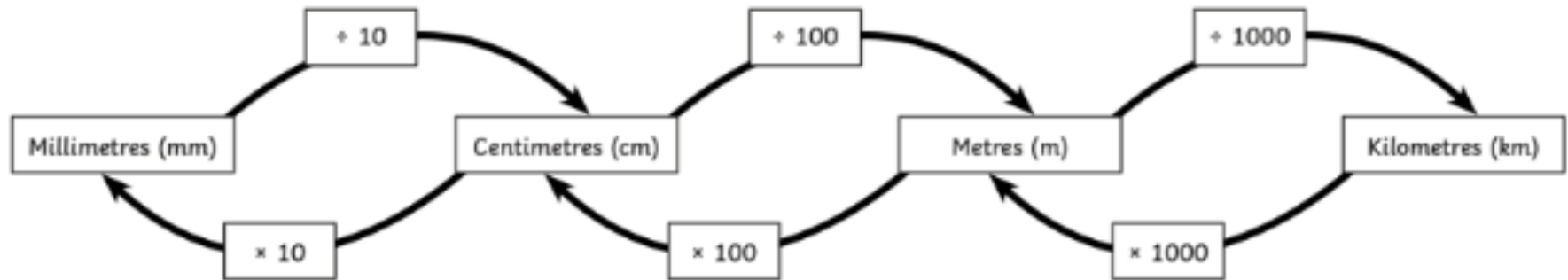
01.02.21

L.O. I can convert between numbers of metric length measures.

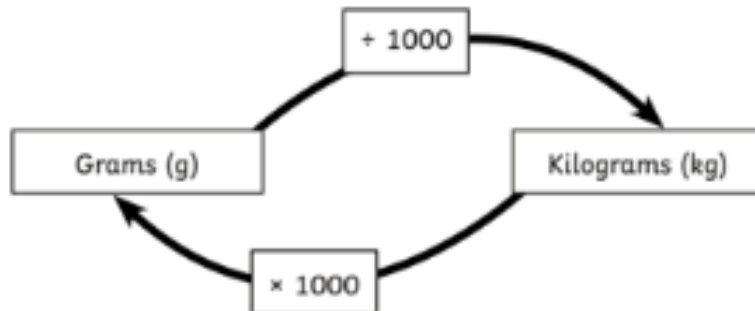


# Measurement Conversion Chart

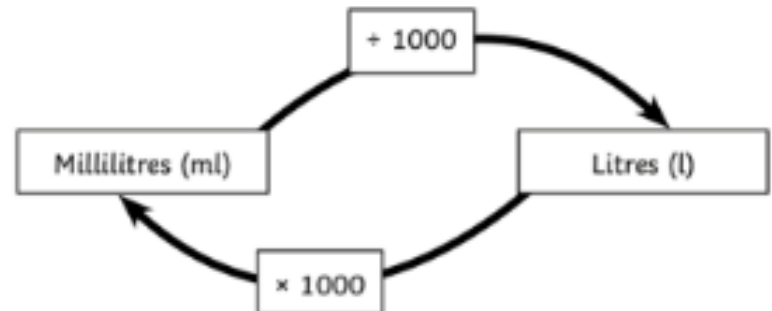
## Length



## Mass



## Capacity









If an ant measures 8mm, how many cm does it measure?



If a hamster is 20cm long, how many m is it?

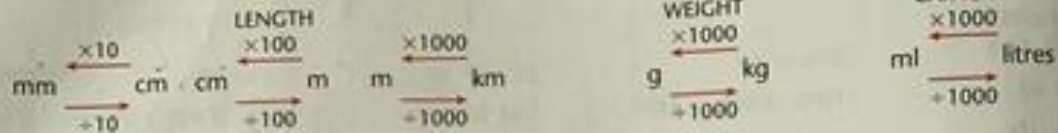
If a football pitch is 1.1km long, how many m is it?



01.02.21

L.O. I can convert between numbers of metric length measures.

**TARGET** To convert metric units of measure.



*Examples*

47 mm = 4.7 cm    138 cm = 1.38 m    790 m = 0.79 km    80 g = 0.08 kg    2650 ml = 2.65 l

**A**

Copy and complete.

- 1 8 mm =  cm
- 2 13 mm =  cm
- 3 7.5 cm =  mm
- 4 0.2 cm =  mm
- 5 30 cm =  m
- 6 200 cm =  m
- 7 0.6 m =  cm
- 8 1.7 m =  cm
- 9 400 m =  km
- 10 5900 m =  km
- 11 0.8 km =  m
- 12 6.5 km =  m

**B**

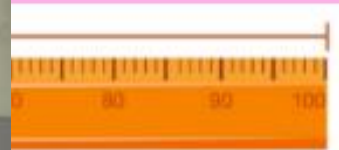
Copy and complete.

- 1 24 mm =  cm
- 2 601 mm =  cm
- 3 5.9 cm =  mm
- 4 18.6 cm =  mm
- 5 472 cm =  m
- 6 95 cm =  m
- 7 3.13 m =  cm
- 8 0.08 m =  cm
- 9 1160 m =  km
- 10 30 m =  km
- 11 0.84 km =  m
- 12 3.02 km =  m

**C**

Copy and complete.

- 1 983 mm =  m
- 2 5841 mm =  m
- 3 0.027 m =  mm
- 4 0.306 m =  mm
- 5 1 cm =  m
- 6 3420 cm =  m
- 7 70 m =  cm
- 8 65.18 m =  cm
- 9 54 m =  km
- 10 2106 m =  km
- 11 0.673 km =  m
- 12 0.009 km =  m



Plenary.



2.3cm

22mm

9.8m

98mm

22mm

2.2cm

344mm

3.4m

780mm

7.08m