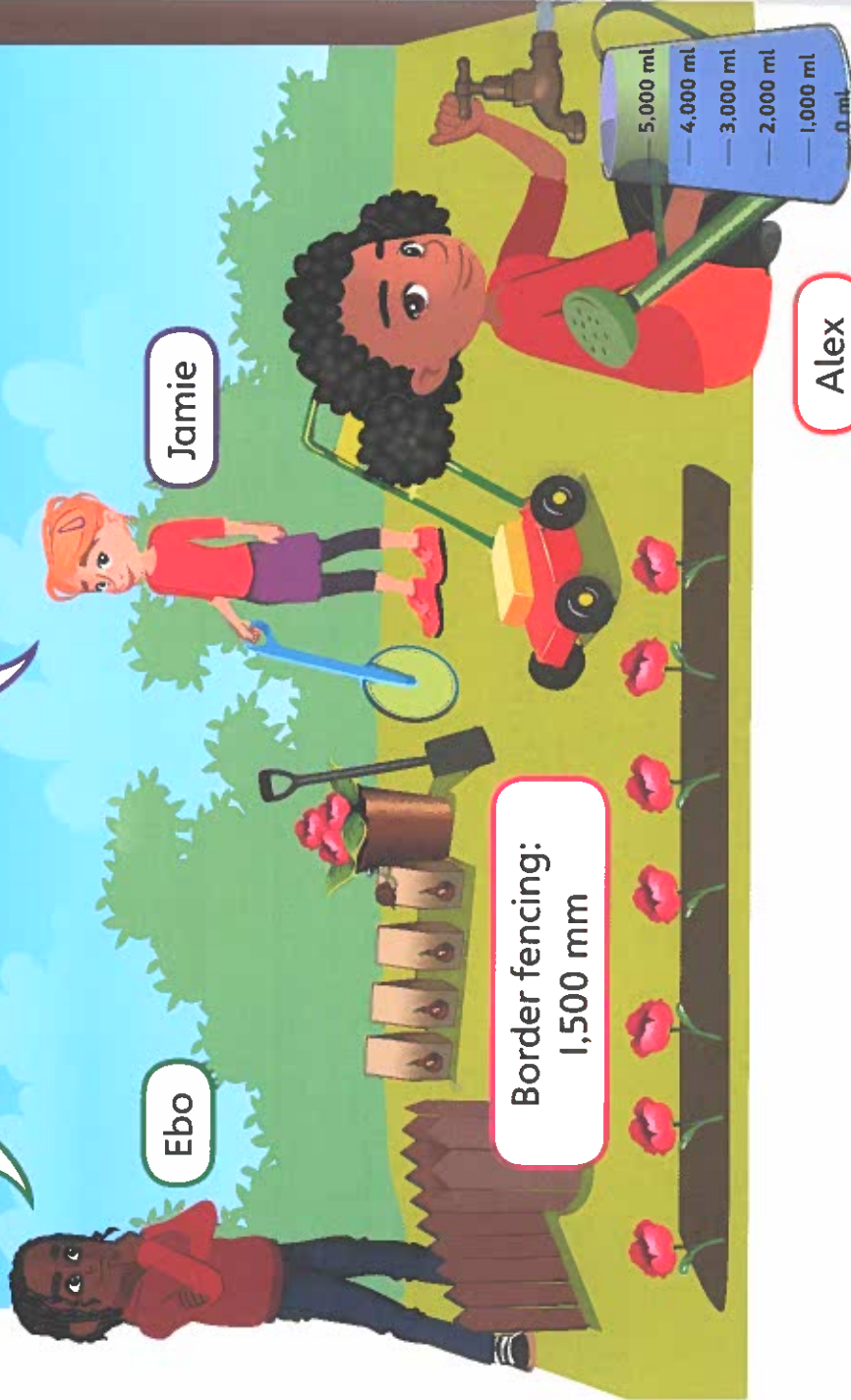


Metric units 2

Discover

I wonder whether I have enough fence to go across the flower bed?

The flower bed is 2 metres long.



Ebo

Jamie

Alex

Border fencing:
1,500 mm

- 1 a) Has Ebo got enough fencing to go across the flower bed?
- b) How many litres of water has Alex put in the watering can?

Share

- a) Millimetres and millilitres both begin with 'milli'.

1 m = 100 cm and 1 cm = 10 mm

$100 \times 10 = 1,000$ so there are 1,000 millimetres in 1 metre.

1 millimetre = $\frac{1}{1,000}$ of a metre

Ebo has 1,500 mm of fencing.
The flower bed is 2 m long.

$2 \times 1,000 = 2,000$

2 ones are now worth
2 thousands.

$1,500 < 2,000$, so Ebo does
not have enough fencing to
go across the flower bed.

- b) Alex has 4,500 ml of water.

The prefix 'milli' comes from Latin. We use it to mean 'one thousandth' of something.



Th	H	T	O	.
2	0	0	0	.

1 m	1 m
1,000 mm	1,000 mm

1,000 millilitres = 1 litre, so I am going to divide by 1,000 to convert from millilitres to litres.

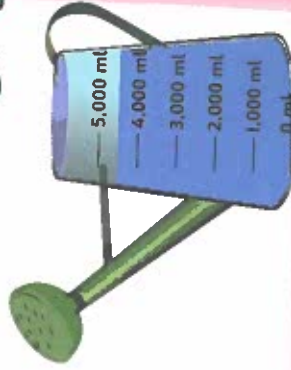
4,500 ml

1,000 ml	1,000 ml	1,000 ml	500 ml
1 l	1 l	1 l	0.5 l

4.5 l

$4,500 \div 1,000 = 4.5$

Alex has put 4.5 litres of water in the watering can.



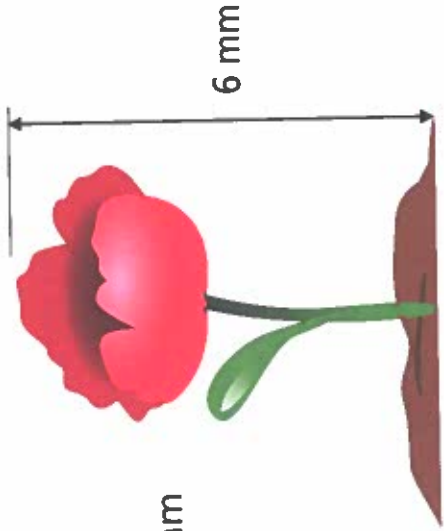
Think together

1 a) This flower is just starting to grow.

How tall is it in centimetres?

There are mm in 1 cm, so to convert mm into cm, divide by .

O	•	Tth
6	•	
0	•	6



1 mm	1 mm	1 mm	1 mm	1 mm
0.1 cm	0.1 cm	0.1 cm	0.1 cm	0.1 cm

6 ÷ =

The flower is cm tall.

b) How many millilitres of plant food are in the bottle?

There are ml in 1 l.

H	T	O	•	Tth
		0	•	7
			•	

0.7 =

The bottle contains ml.



2 Choose which operation goes into each sentence.

To convert from a larger to a smaller unit (for example, from litres to ml), .

To convert from a smaller to a larger unit (for example, from mm to cm), .

×

÷

3 a) Complete the table.

CHALLENGE

Length	Capacity
1 mm = of a metre	1 ml = of a litre
1 cm = of a metre	
1 m = 1,000	1 l = 1,000
1 m = 100	
1 is 0.001	1 is 0.001

Explain your answers.

b) What is the same about the two columns? What is different?

For the last line, I looked at the place value of the digit 1 to help me.

I can think of more than one possible answer for length in that part!

