

# Calculations with Length

Now it's time to use all those units of length in some calculations.  
Don't forget to put the units in your final answer.

## Examples

Work out  $52 \text{ cm} + 30 \text{ cm}$ .

$$52 + 30 = 82$$

So  $52 \text{ cm} + 30 \text{ cm} = 82 \text{ cm}$

Hardeep has a plastic pipe that is  $1 \text{ m } 93 \text{ cm}$  long.  
He cuts off  $48 \text{ cm}$ . How much is left?

$$93 - 48 = 45$$

So he has  $1 \text{ m } 45 \text{ cm}$  of plastic pipe left.

## Set A

Work out:

- 1  $72 \text{ cm} + 20 \text{ cm}$
- 2  $140 \text{ mm} - 30 \text{ mm}$
- 3  $700 \text{ mm} + 200 \text{ mm}$
- 4  $195 \text{ m} - 61 \text{ m}$
- 5  $44 \text{ mm} + 38 \text{ mm}$
- 6  $82 \text{ cm} - 39 \text{ cm}$
- 7  $1 \text{ m} - 83 \text{ cm}$

Here are the lengths of 3 wires.

A:   $53 \text{ cm}$

B:   $26 \text{ cm}$

C:   $29 \text{ cm}$

- 8 What is the difference in length between wire A and wire B?
- 9 What is the total length of wire A and wire C?
- 10 Sophie's necklace is  $43 \text{ cm}$ . Her scarf is twice as long. How long is her scarf?
- 11 Karl walks  $300 \text{ m}$  then runs  $420 \text{ m}$ . How far has he gone in total?
- 12 A climber has a  $54 \text{ m}$  rope and cuts  $19 \text{ m}$  off. How much rope is left?

## Set B

Find the missing numbers:

- 1  $35 \text{ mm} + 59 \text{ mm} = \square \text{ mm}$
- 2  $178 \text{ m} - \square \text{ m} = 118 \text{ m}$
- 3  $\square \text{ cm} - 74 \text{ cm} = 18 \text{ cm}$
- 4  $60 \text{ cm} + 90 \text{ cm} = 1 \text{ m } \square \text{ cm}$
- 5  $2 \text{ m } \square \text{ cm} - 55 \text{ cm} = 2 \text{ m}$
- 6  $1 \text{ m } 40 \text{ cm} - \square \text{ cm} = 90 \text{ cm}$

Here are the heights of 3 cakes.

Cake	A	B	C
Height (mm)	290	240	350

How much taller is:

- 7 cake A than cake B?
- 8 cake C than cake A?
- 9 What is the total height of all three cakes?
- 10 A tram travels  $365 \text{ m}$  to the first station. It then travels  $480 \text{ m}$  to the second station. How far does it travel in total?

Jill can swim  $80 \text{ m}$ .

Raj can swim four times as far.

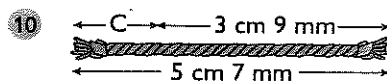
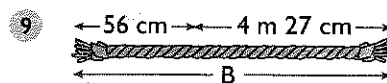
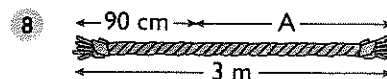
- 11 How far can Raj swim?
- 12 How far can Jill and Raj swim in total?

## Set C

Work out:

- 1  $200 \text{ cm} - 180 \text{ cm}$
- 2  $396 \text{ m} + 9 \text{ m}$
- 3  $1 \text{ m} - 50 \text{ cm}$
- 4  $11 \text{ cm } 3 \text{ mm} + 18 \text{ cm } 6 \text{ mm}$
- 5  $4 \text{ m } 51 \text{ cm} + 2 \text{ m } 22 \text{ cm}$
- 6  $6 \text{ cm } 7 \text{ mm} - 9 \text{ mm}$
- 7  $2 \text{ m} - 1 \text{ m } 40 \text{ cm}$

Work out the missing lengths on these ropes.



- 11 A school yard is  $18 \text{ m}$  long. The field is five times longer. How long is the field?
- 12 A house is  $12 \text{ m } 43 \text{ cm}$  wide and gets extended by  $1 \text{ m } 40 \text{ cm}$ . How wide is the extended house?
- 13 An apple tree is  $5 \text{ m } 40 \text{ cm}$  tall.  $80 \text{ cm}$  is cut off the top. How tall is the tree now?

