

Can I find equivalent lengths?

Year 3 and 4, Tuesday 26th January 2021

Watch the video

- <https://vimeo.com/467395292>
- Now complete the questions on the next slides

Equivalent lengths – m and cm

- 1 There are 100 centimetres (cm) in 1 metre (m).
Use the bar models to complete the sentences.

1 m
100 cm

a)

1 m	1 m	1 m

There are cm in 3 m.

b)

1 m	1 m	1 m	1 m	1 m	1 m

There are cm in 6 m.

c)

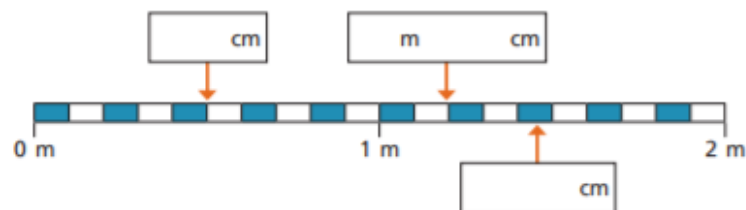
100 cm	100 cm	100 cm	100 cm	100 cm

There are 500 cm in m.

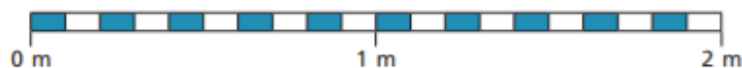
- 2 Complete the table to show equivalent lengths and continue the pattern.

cm	m and cm
310 cm	3 m and 10 cm
320 cm	m and cm
330 cm	m and cm
cm	3 m and 40 cm
cm	3 m and 50 cm
cm	m and cm
cm	m and cm

- 3 Write the missing measurements.

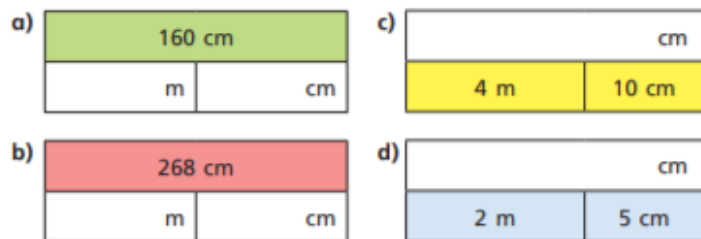


- 4 Draw an arrow to show the position of each measurement.



- | | | | |
|-------|-----------|--------|-----------|
| A | B | C | D |
| 20 cm | 0 m 75 cm | 130 cm | 1 m 65 cm |

- 5 Complete the bar models.



- 6 Complete the sentences.

- a) 240 cm = m and cm
- b) 319 cm = m and cm

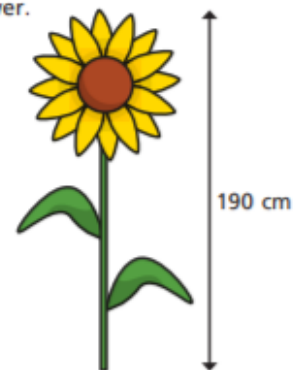


c) 508 cm = m and cm

d) 2 m and 15 cm = cm

e) 8 m and 3 cm = cm

- 7 Here is Huan's sunflower.



Dani's sunflower is 2 m and 30 cm.

Tom's sunflower is exactly halfway between Huan's and Dani's.

How tall is Tom's sunflower?

Write your answer in metres and centimetres.

m and cm



Lightbulb task – use an ACE answer

Answer Calculate Explain

True or False ?

Equivalent lengths - m & cm

One metre = ten centimetres.

ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

Equivalent lengths – m and cm

- 1 There are 100 centimetres (cm) in 1 metre (m).
Use the bar models to complete the sentences.

1 m
100 cm

a)

1 m	1 m	1 m
100 cm	100 cm	100 cm

There are cm in 3 m.

b)

1 m	1 m	1 m	1 m	1 m	1 m
100 cm	100 cm	100 cm	100 cm	100 cm	100 cm

There are cm in 6 m.

c)

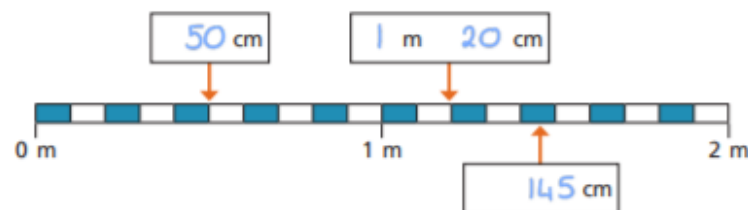
1 m	1 m	1 m	1 m	1 m
100 cm	100 cm	100 cm	100 cm	100 cm

There are 500 cm in m.

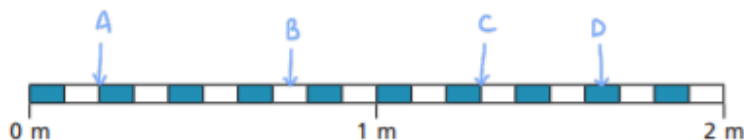
- 2 Complete the table to show equivalent lengths and continue the pattern.

cm	m and cm
310 cm	3 m and 10 cm
320 cm	3 m and 20 cm
330 cm	3 m and 30 cm
340 cm	3 m and 40 cm
350 cm	3 m and 50 cm
360 cm	3 m and 60 cm
370 cm	3 m and 70 cm

- 3 Write the missing measurements.



4 Draw an arrow to show the position of each measurement.



A	B	C	D
20 cm	0 m 75 cm	130 cm	1 m 65 cm

5 Complete the bar models.

a)	<table border="1"><tr><td colspan="2">160 cm</td></tr><tr><td>1 m</td><td>60 cm</td></tr></table>	160 cm		1 m	60 cm	c)	<table border="1"><tr><td colspan="2">410 cm</td></tr><tr><td>4 m</td><td>10 cm</td></tr></table>	410 cm		4 m	10 cm
160 cm											
1 m	60 cm										
410 cm											
4 m	10 cm										
b)	<table border="1"><tr><td colspan="2">268 cm</td></tr><tr><td>2 m</td><td>68 cm</td></tr></table>	268 cm		2 m	68 cm	d)	<table border="1"><tr><td colspan="2">205 cm</td></tr><tr><td>2 m</td><td>5 cm</td></tr></table>	205 cm		2 m	5 cm
268 cm											
2 m	68 cm										
205 cm											
2 m	5 cm										

6 Complete the sentences.

- a) 240 cm = m and cm
- b) 319 cm = m and cm

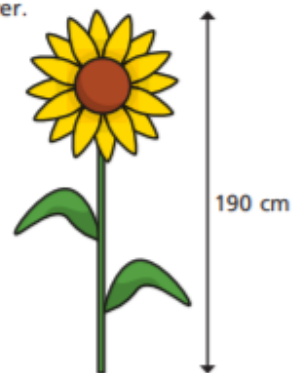


c) 508 cm = m and cm

d) 2 m and 15 cm = cm

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Tom's sunflower is exactly halfway between Huan's and Dani's.

How tall is Tom's sunflower?

Write your answer in metres and centimetres.

m and cm



ACE answer lightbulb task

True or False ?

Equivalent lengths - m & cm

Answer

False

Calculation

One metre = One hundred centimetres.

Explanation

$1 \text{ m} = 100 \text{ cm}$