Year 3 Maths Lesson

3.03.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- Answers from yesterday's work
- 1 maths lesson

Remember – you can get Dojos for posting pictures of your work on Class Dojo!

Learn your x 4 tables. Chant them, sing them. Close your eyes and see if you can do them without looking. Now have a go with Cyril the Swan.

4 x 1 = 4	4 x 6 = 24
4 x 2 = 8	4 x 7 = 28
4 x 3 = 12	4 x 8 = 32
4 x 4 = 16	4 x 9 = 36
4 x 5 = 20	4 x 10 = 40

https://www.bbc.co.uk/teach/supermovers/ks1-maths-the-4-times-table-with-cyril-the-swan/zmsw382

Warm Up Activity 3

Answers on the next slide. No peeking!

Work out these x4/÷4 questions. Remember x 4 (double, double) and ÷ 4 (halve, halve)

Easier

1. 4 x 3 =
2. 4 x 4=
3. 4 x 7 =
4. 4 x 8 =
5. 4 x 0=
6. 4 x 10 =
7. 4 x 11 =
8. 8 ÷ 4 =
9. 16 ÷ 4=
10. 20 ÷ 4 =
11. 40 ÷ 4 =
12. 12÷ 4 =
13. 32 ÷4 =
14. 24 ÷ 4 =

Harder

1. 4 x __ = 8
2. 4 x __= 16
3. 4 x __ = 40
4. 4 x __ = 32
5. 4 x __ = 12
6. __ x 4 = 44
7. __ x 4 = 28
8. 4 ÷ __ = 4
9. __÷ 4 = 10
10. __ ÷ 4 = 8
11. __÷ 4 = 9
12. __÷ 4 = 5
13. __÷4 = 7
14. __÷ 4 = 11

Warm Up Activity 3 Answers

Work out these x4/÷4 questions. Remember x 4 (double, double) and ÷ 4 (halve, halve)

Easier

1. 4 x 3 = 12
2. 4 x 4= 16
3. 4 x 7 = 28
4. 4 x 8 = 32
5. 4 x 0= 0
6. 4 x 10 = 40
7. 4 x 11 = 44
8. 8 ÷ 4 = 2
9. 16 ÷ 4= 4
10. 20 ÷ 4 = 5
11. 40 ÷ 4 =10
12. 12÷ 4 = 3
13. 32 ÷4 =8
14. 24 ÷ 4 =6

Harder

1. 4 x 2 = 8
2. 4 x 4= 16
3. 4 x 10 = 40
4. 4 x 8 = 32
5. 4 x 3 = 12
6. 11 x 4 = 44
7. 7 x 4 = 28
8. 4 ÷1 = 4
9. 40 ÷ 4 = 10
10. 32 ÷ 4 = 8
11. 36÷ 4 = 9
12. 20 ÷ 4 = 5
13. 28÷4 = 7
14. 44÷ 4 = 11

3.03.21

Write today's date and objective in your home learning book.

Can I give equivalent lengths for centimetres and millimetres?

Remember to be proud of your work and use your best presentation

The answers to yesterday's work on converting between cm and m are on the next couple of 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
100 cm	100 cm	100 cm

There are 300 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 600 cm in 6 m.

c)

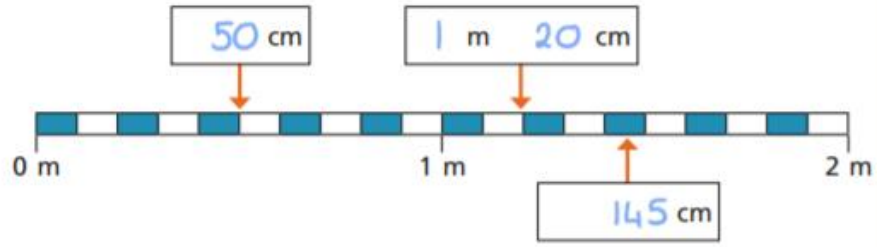
1m	1m	1m	1m	1m
100 cm	100 cm	100 cm	100 cm	100 cm

There are 500 cm in 5 m.

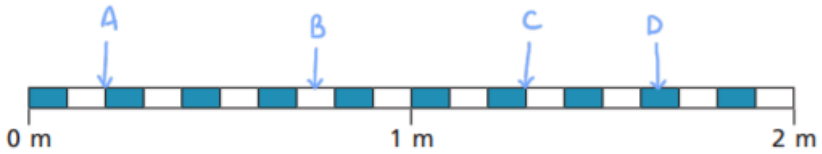
2 Complete the table to show equivalent lengths and continue the pattern.

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)

160 cm	
1 m	60 cm

b)

268 cm	
2 m	68 cm

c)

410 cm	
4 m	10 cm

d)

205 cm	
2 m	5 cm

6 Complete the sentences.

a) 240 cm = [2] m and [40] cm

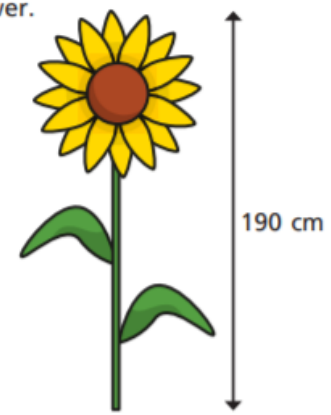
b) 319 cm = [3] m and [19] cm

c) 508 cm = [5] m and [8] cm

d) 2 m and 15 cm = [215] cm

e) 8 m and 3 cm = [803] cm

7 Here is Huan's sunflower.



Dani's sunflower is 2 m and 30 cm.

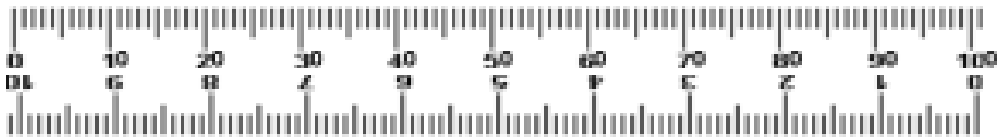
Tom's sunflower is exactly halfway between Huan's and Dani's.

How tall is Tom's sunflower?

Write your answer in metres and centimetres.

[2] m and [10] cm

This week we are learning about length. What is length a measurement of?



What units can we measure length in?

Length is a measure of distance.

For today's Maths lesson, I would like you to use this video from White Rose Maths. In today's lesson we are learning about converting between centimetres and millimetres. Watch the short video, pausing it when instructed and then complete the worksheet.

https://vimeo.com/504918866

You will need to get the equipment shown here →

- Pencil
- Ruler
- Exercise book

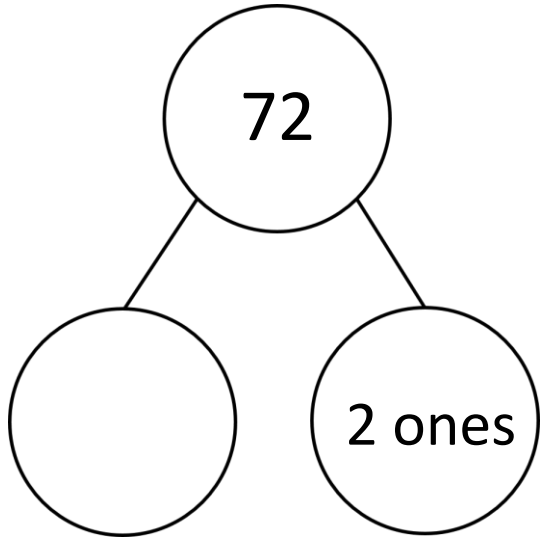
I have also copied a few of the slides to help you on your way.

1) Complete the sequence.

10, 20, 30, 40, _____, _____

2) How many tens are in 38?

3) Complete the part-whole model.



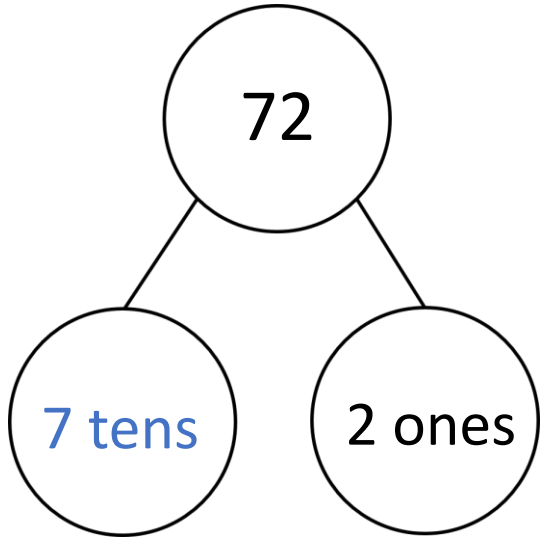
1) Complete the sequence.

10, 20, 30, 40, __50__, __60__

2) How many tens are in 38?

3 tens

3) Complete the part-whole model.

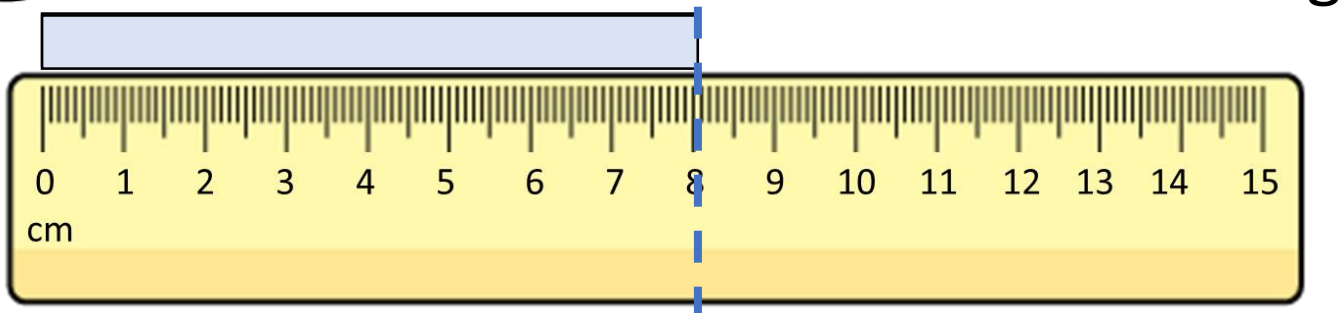


LET'S LEARN

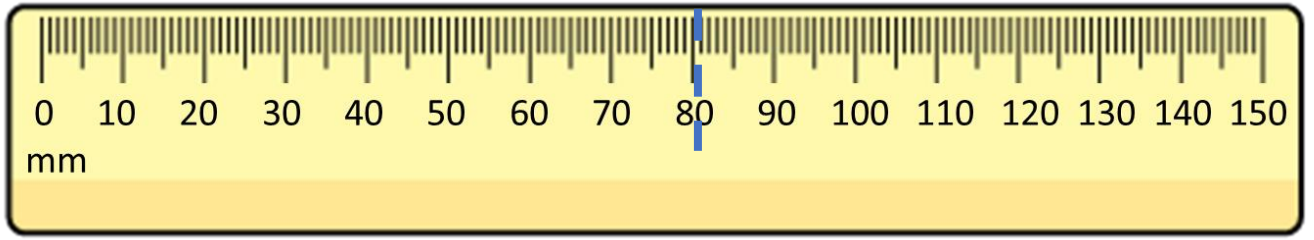
White Rose Maths

What is the length of the bar?

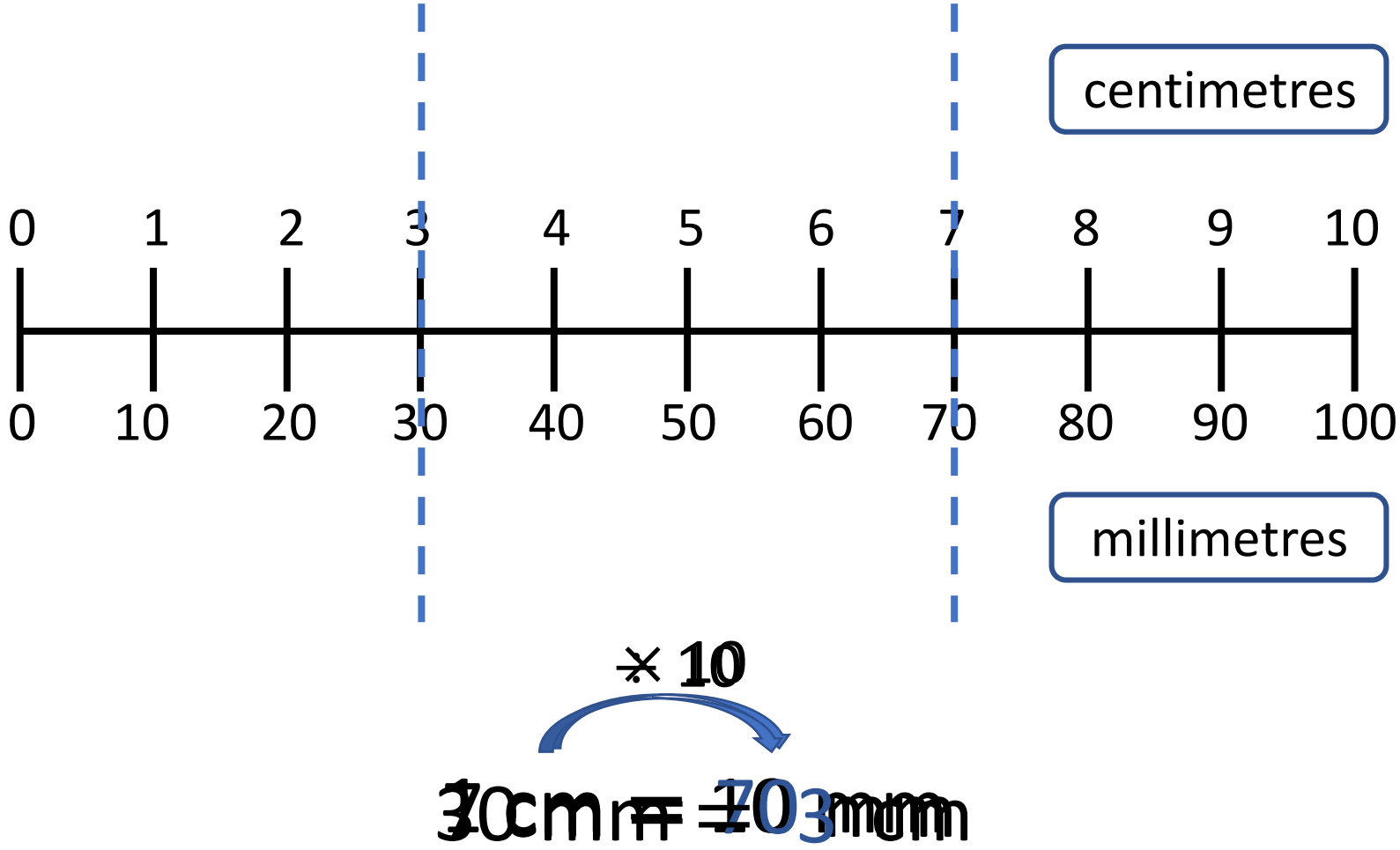
The bar is 8 cm long.

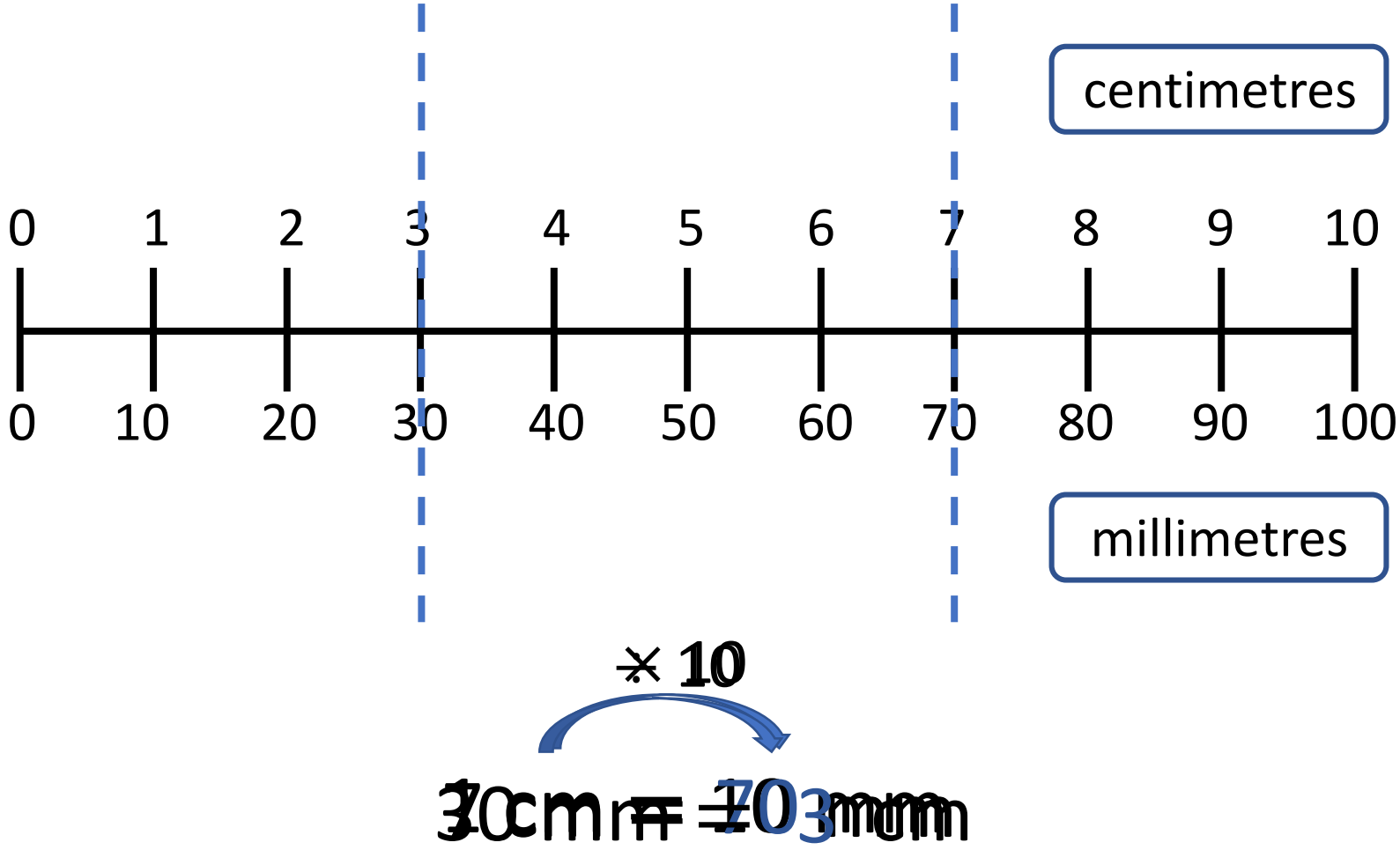


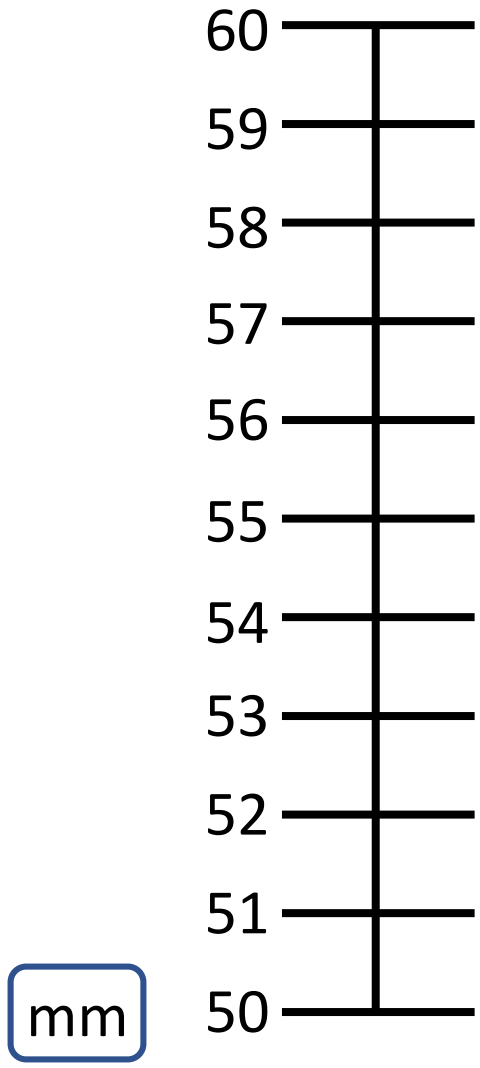
The bar is 80 mm long.

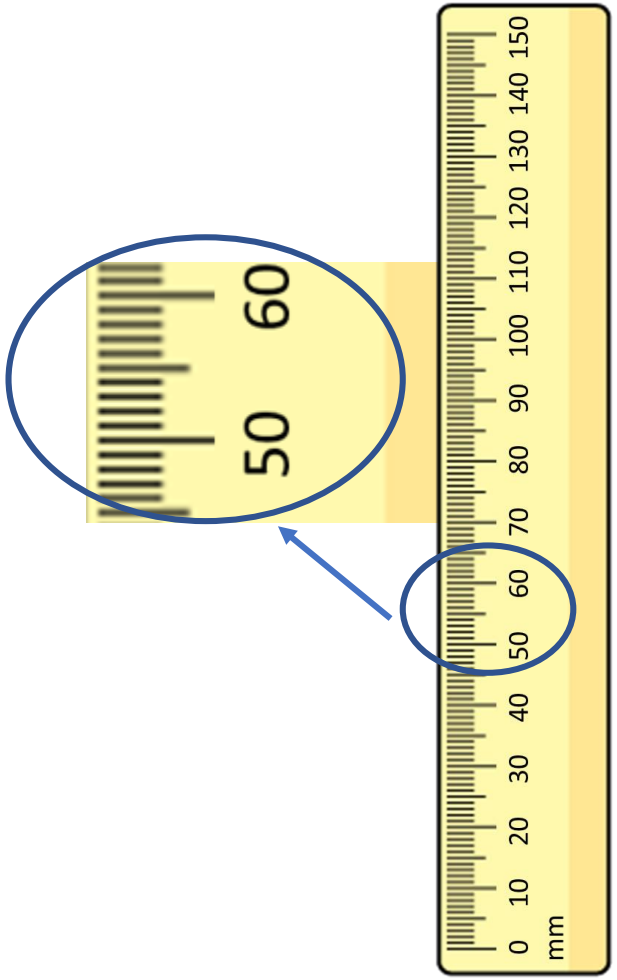


8 cm = 80 mm

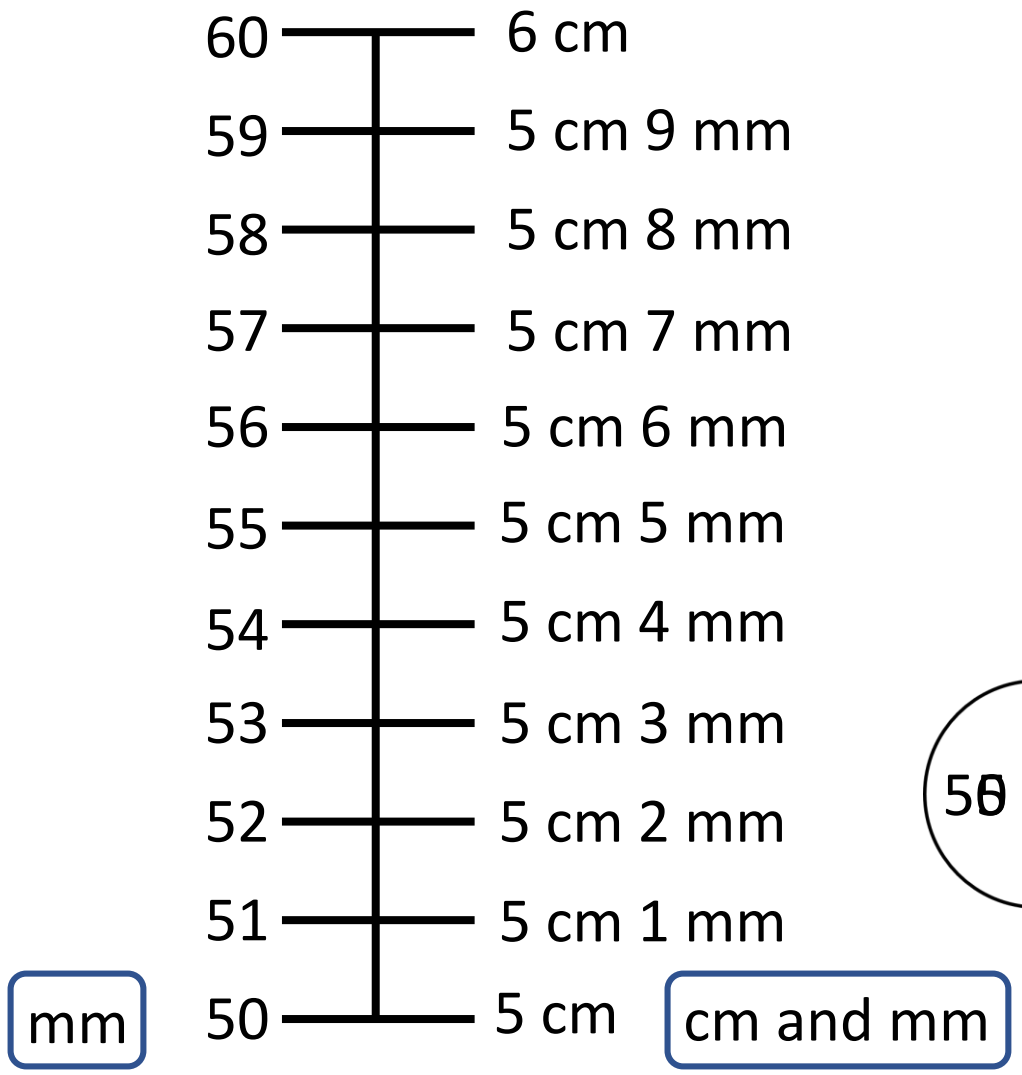

centimetres
0 1 2 3 4 5 6 7 8 9 10
0 10 20 30 40 50 60 70 80 90 100
millimetres
× 10
3 cm = 30 mm
7 cm = 70 mm

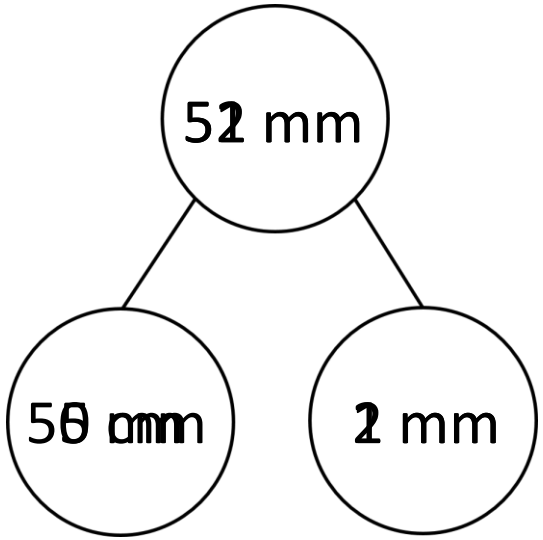

centimetres
0 1 2 3 4 5 6 7 8 9 10
0 10 20 30 40 50 60 70 80 90 100
millimetres
× 10
3 cm = 30 mm
7 cm = 70 mm


60
59
58
57
56
55
54
53
52
51
50
mm

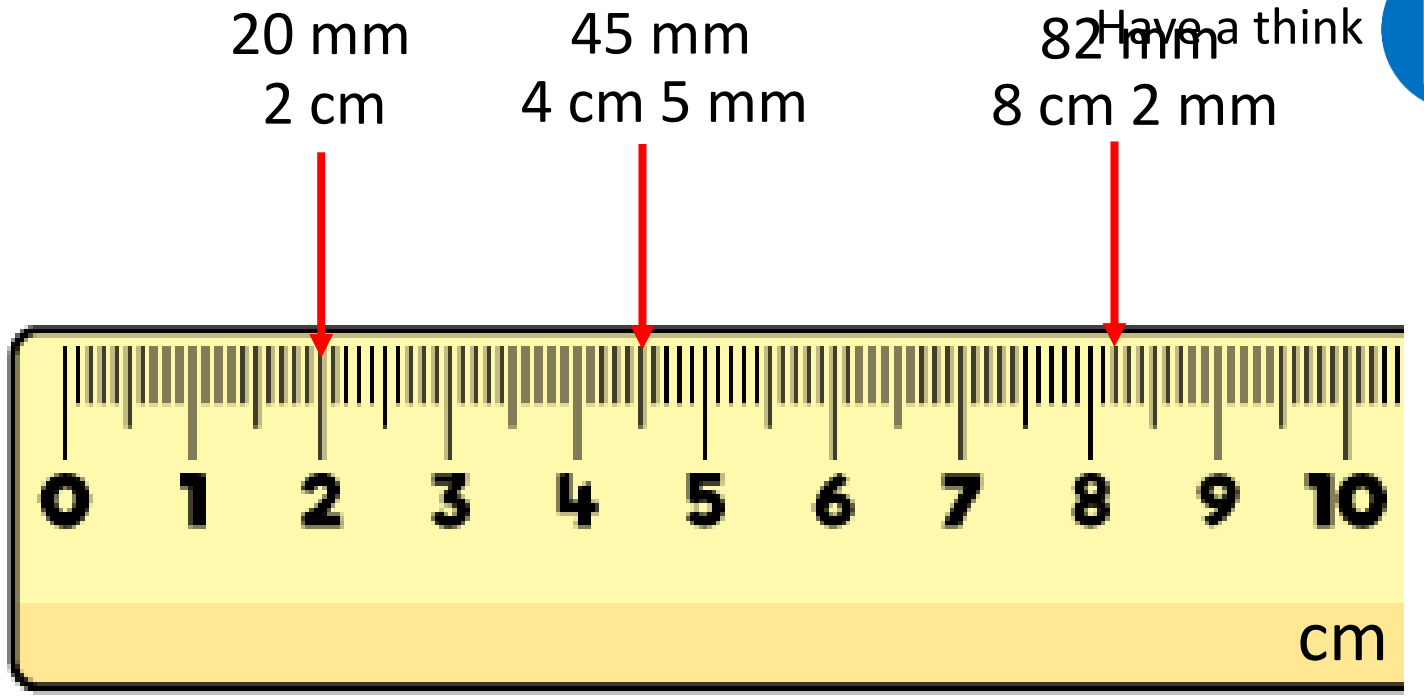

60
50
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
mm

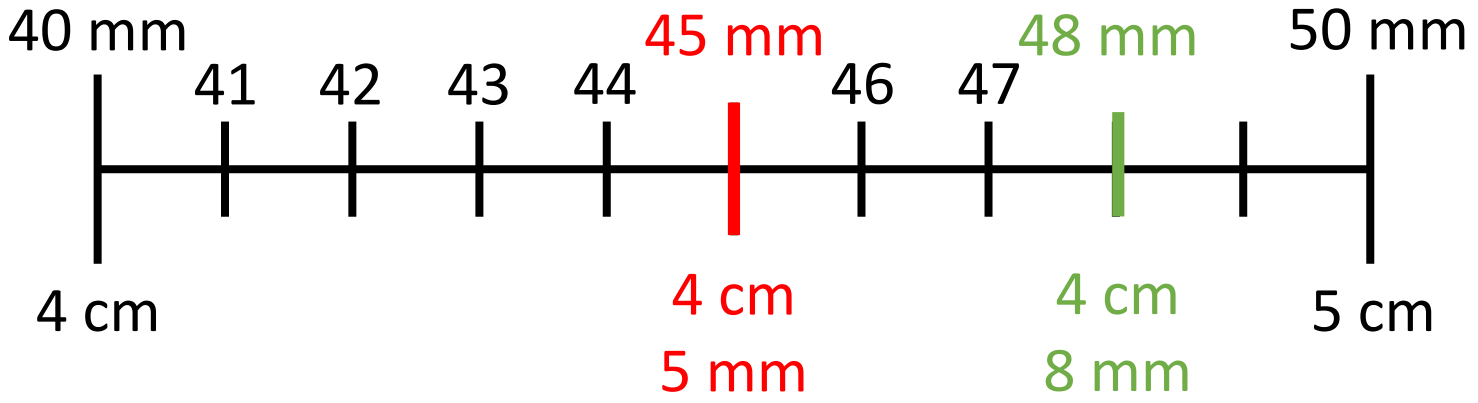
Have a think


60
59
58
57
56
55
54
53
52
51
50
6 cm
5 cm 9 mm
5 cm 8 mm
5 cm 7 mm
5 cm 6 mm
5 cm 5 mm
5 cm 4 mm
5 cm 3 mm
5 cm 2 mm
5 cm 1 mm
5 cm
mm
cm and mm


52 mm
50 mm
2 mm

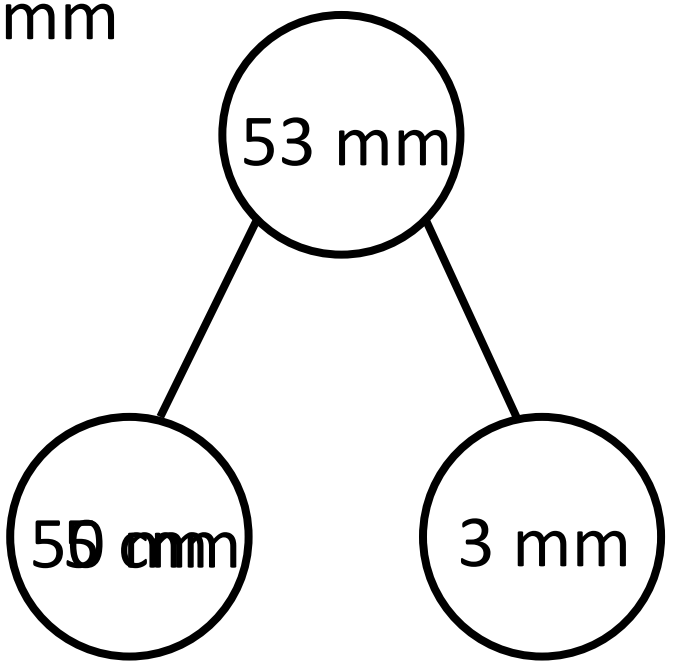
Have a think


20 mm
2 cm
45 mm
4 cm 5 mm
82 mm
8 cm 2 mm
0 1 2 3 4 5 6 7 8 9 10
cm


40 mm
41
42
43
44
45 mm
46
47
48 mm
50 mm
4 cm
4 cm
5 mm
4 cm
8 mm
5 cm

5 cm and 3 mm = 53 mm

53 mm	
5 cm	3 mm



50 mm + 3 mm = 53 mm

YOUR TURN

Have a go at worksheets on the next few slides.

White Rose Maths

Equivalent lengths – mm and cm

1 There are 10 millimetres (mm) in 1 centimetre (cm).

Use the bar models to complete the sentences.

1 cm
10 mm

a)

1 cm	1 cm	1 cm

There are ☐ mm in 3 cm.

b)

1 cm	1 cm	1 cm	1 cm	1 cm	1 cm	1 cm

There are ☐ mm in 7 cm.

c)

10 mm	10 mm	10 mm	10 mm

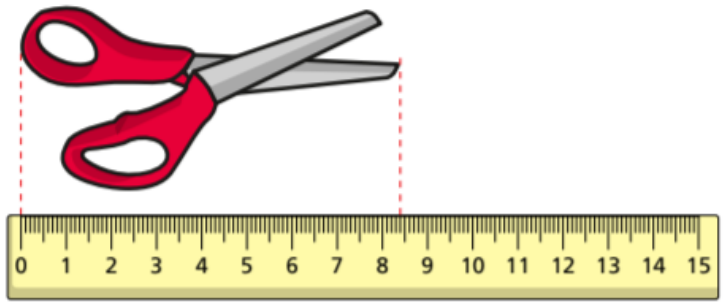
There are 40 mm in ☐ cm.

2 Match the equivalent lengths.

1 cm 3 mm	3 cm 1 mm	30 mm	33 mm	30 cm

300 mm	13 mm	31 mm	3 cm 0 mm	3 cm 3 mm

3 How long are the scissors?



The scissors are ☐ cm and ☐ mm long.

The scissors are ☐ mm long.

4 Find three items in your classroom.

Measure them and complete the table.

One has been done for you.

Item	Length in cm and mm	Length in mm
toy car	9 cm 6 mm	96 mm

5 Filip and Kim are building towers using cubes.

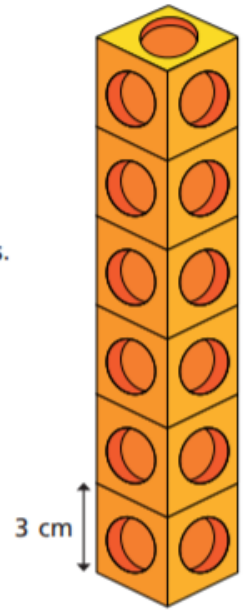
Each cube is 3 cm high.

a) Filip uses 6 cubes.

How tall is Filip's tower?

Give your answer in millimetres.

Filip's tower is ☐ mm tall.



b) Kim's tower is 300 mm tall.

How many cubes does she use?

Kim uses ☐ cubes.

6 Complete the bar models.

a)

62 mm	
cm	mm

b)

4 mm	
cm	mm

c)

	mm
30 cm	1 mm

d)

	mm
30 cm	10 mm

Challenge

Ron is thinking of a measurement. Use his clues to work out which measurement he is thinking of.

- In mm, my measurement is a multiple of 2
- It has 8 cm and some mm
- It's less than 85 mm
- In mm, the digit sum is 12

Covert these cm lengths into millimetres

1) 3 cm = _____mm
2) 4 cm = _____mm
3) 8 cm = _____mm
4) 10cm = _____mm
5) 12cm = _____mm
6) 3 cm 5 mm = _____mm
7) 9 cm 6mm = _____mm
8) 7 cm 8 mm = _____mm
9) 11cm 9mm = _____mm
10) 14 cm 1 mm = _____mm

How did you do?

I can't wait to look at your work.

Don't forget to put your finished work on Class Dojo!