Year 3 Maths Lesson

4.03.21

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!

Warm Up Activity 4

Answers on the next slide. No peeking!

Convert these unit of length

Easier

1. 3 cm = ____mm
2. 5 cm = ____mm
3. 9cm = ____mm
4. 4cm 6mm = ____mm
5. 8 cm 9mm = ____mm
6. 7 cm 6mm= ____mm
7. 1m = ____ cm
8. 4 m = ____ cm
9. 7 m 50 cm = ____ cm
10. 5 m 60 cm = _____cm

Harder

1. 6 cm 7mm = _____mm
2. 8 cm 9mm = _____mm
3. 9cm 5mm = ____mm
4. 10 cm 3mm = ____mm
5. 2m 40 cm = _____cm
6. 8m 55cm = _____cm
7. 9m 88cm = _____cm
8. 7m 33cm = _____ cm
9. 10 m 70cm = ____cm
10. 12m 67cm = ____cm

Warm Up Activity 4 Answers

Answers on te next slide. No peeking!

Easier

1. 3 cm = 30 mm
2. 5 cm = 50 mm
3. 9cm = 90 mm
4. 4cm 6mm = 46 mm
5. 8 cm 9mm = 89 mm
6. 7 cm 6mm= 76 mm
7. 1m = 100 cm
8. 4 m = 400 cm
9. 7 m 50 cm = 750 cm
10. 5 m 60 cm = 560cm

Harder

1. 6 cm 7mm = 67 mm
2. 8 cm 9mm = 89 mm
3. 9cm 5mm = 95 mm
4. 10 cm 3mm = 103mm
5. 2m 40 cm = 240 cm
6. 8m 55cm = 855 cm
7. 9m 88cm = 988 cm
8. 7m 33cm = 733 cm
9. 10 m 70cm = 1070_cm
10. 12m 67cm = 1267 cm

4.03.21

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

Can I add units of length

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

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
10mm	10mm	10mm

There are [30] mm in 3 cm.

b)

1 cm	1 cm	1 cm	1 cm	1 cm	1 cm	1 cm
10mm	10mm	10mm	10mm	10mm	10mm	10mm

There are [70] mm in 7 cm.

c)

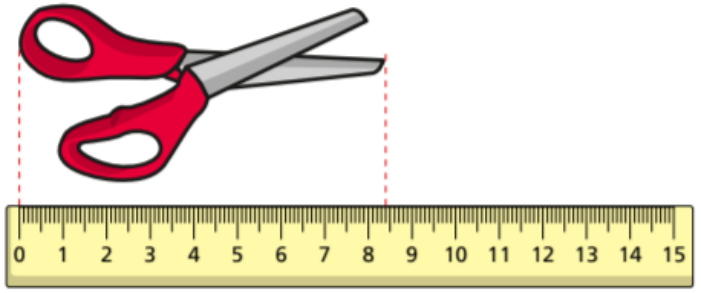
1 cm	1 cm	1 cm	1 cm
10 mm	10 mm	10 mm	10 mm

There are 40 mm in [4] 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 [8] cm and [4] mm long.

The scissors are [84] 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.

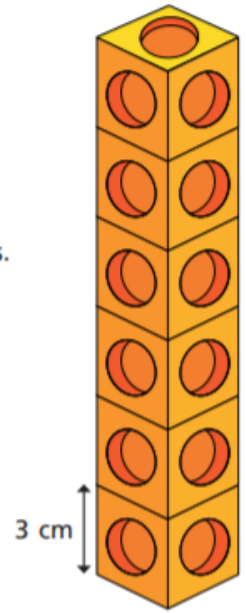
Each cube is 3 cm high.

a) Filip uses 6 cubes.

How tall is Filip's tower?

Give your answer in millimetres.

Filip's tower is [180] mm tall.



b) Kim's tower is 300 mm tall.

How many cubes does she use?

Kim uses [10] cubes.

6 Complete the bar models.

a)

62 mm	
6 cm	2 mm

b)

4 mm	
0 cm	4 mm

c)

301 mm	
30 cm	1 mm

d)

310 mm	
30 cm	10 mm

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 using our knowledge of length to add units of length together.

https://vimeo.com/506146810

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) Convert the measurements.

$1 \text{ cm} = \_\_\_\_\_ \text{ mm}$

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

2) $47 + 25 + 13 =$

3) $128 \text{ cm} = 1 \text{ m} + \_\_\_\_ \text{ cm}$

1) Convert the measurements.

1 cm = 10 mm

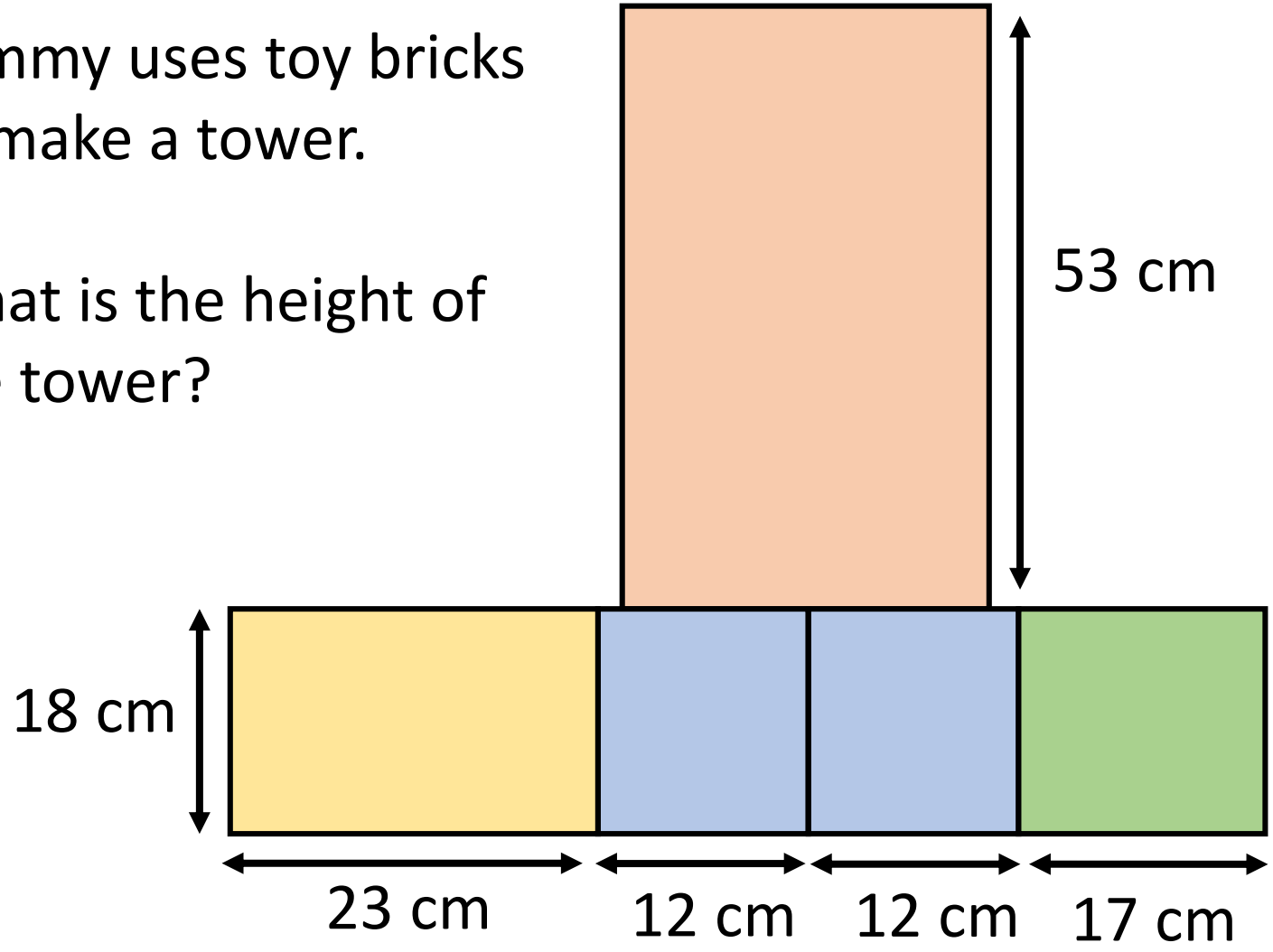
1 m = 100 cm

2) $47 + 25 + 13 = 60 + 25 = 85$

3) 128 cm = 1 m + 28 cm

Tommy uses toy bricks to make a tower.

What is the height of the tower?



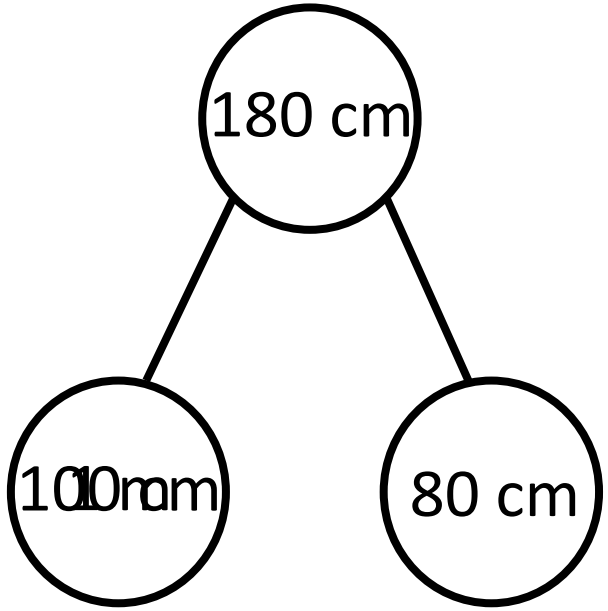
20 mm $+ 10$ cm $=$ 30 cm

2 cm $+ 10$ cm $=$ 12 cm

10 mm = 1 cm

1 m 80 cm $+$ 20 cm $= 2$ m

180 cm $+$ 20 cm $= 200$ cm

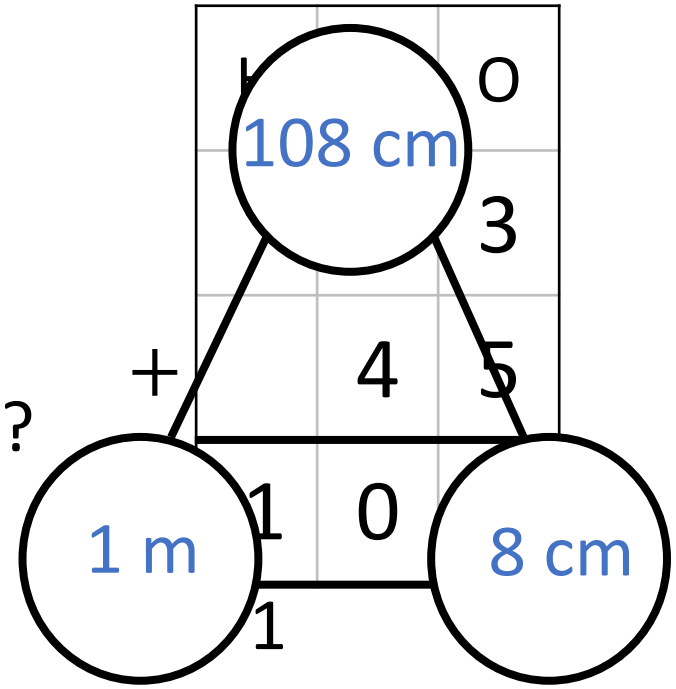


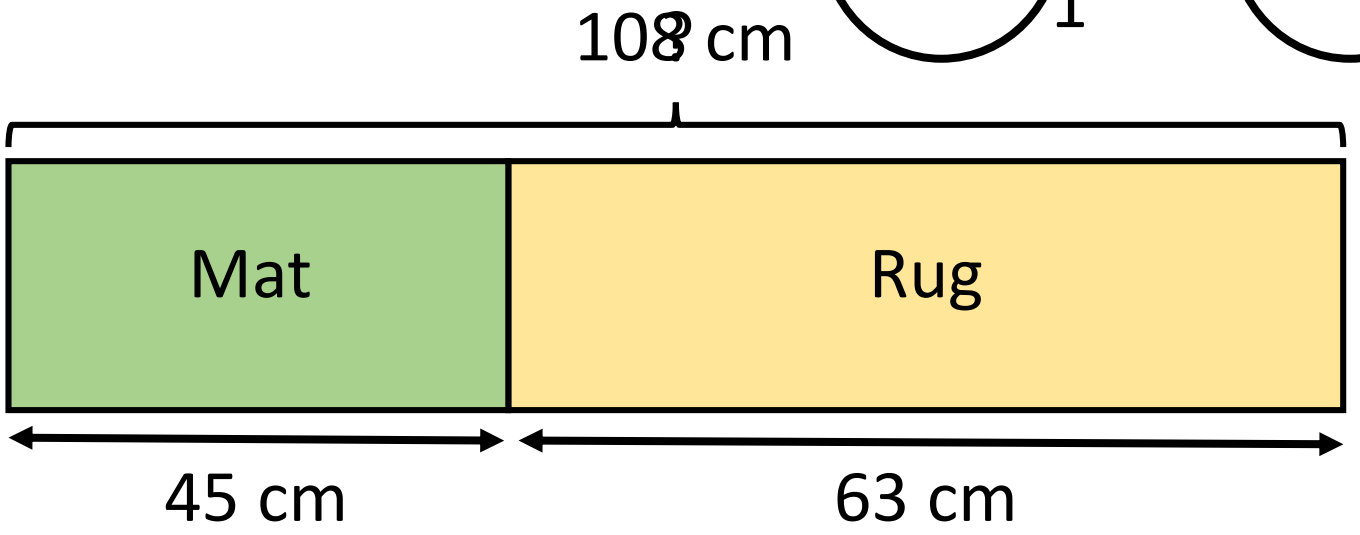
A mat is 45 cm long.

A rug is 63 cm long.

How long are they altogether?

108 cm = 1 m and 8 cm

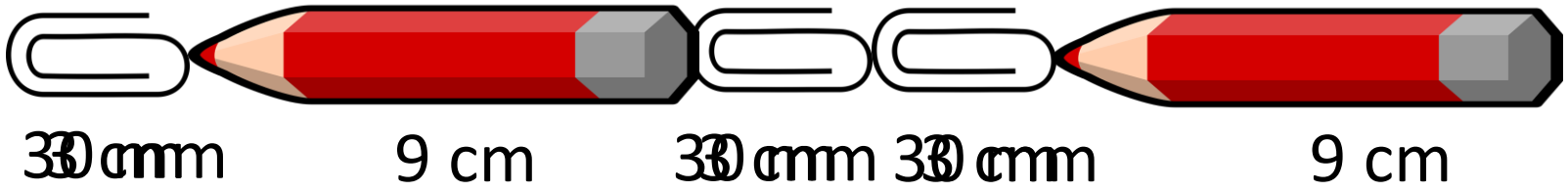




A paperclip is 30 mm long.
A crayon is 9 cm long.
Dexter arranges some paperclips and crayons like this:

Have a think

Does his pattern fit onto a 30 cm long piece of paper? Yes



$3 + 9 + 3 + 3 + 9 = 27$

$3 \times 9 = 27$

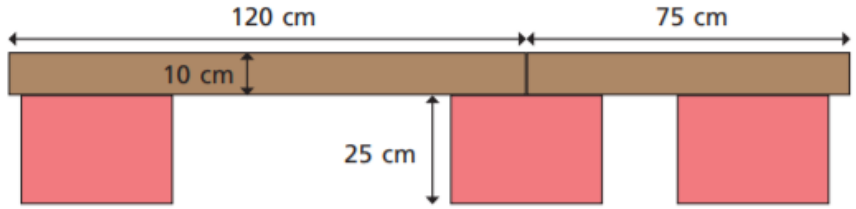
$3 + 9 = 12$

$12 + 12 = 24$

$24 + 3 = 27$

Add lengths

1 Scott builds a bridge using planks.



a) What is the total length of his bridge? ☐ cm

b) What is the height of his bridge? ☐ cm

2 Complete the additions.

a) 25 cm + 75 cm = ☐ m

b) 10 cm + 50 mm = ☐ cm

c) 1 m 20 cm + ☐ cm = 2 m

d) 52 mm + ☐ mm = 6 cm

3 Brett is 115 cm tall.

His brother is 20 cm taller.

How tall is Brett's brother?

Write your answer in metres and centimetres.

☐ m and ☐ cm

4 Dora builds a tower that measures 1 m and 5 cm.

Annie builds a tower that measures 80 cm.

Dexter builds a tower that measures 95 cm.

They put their towers together to make one high tower.

How tall is their new tower?

The new tower is ☐ cm tall.

This is the same as ☐ m and ☐ cm.

5 Red bricks are 50 mm long.

Blue bricks are 80 mm long.

a) Whitney and Eva make patterns using the bricks.

How long is each pattern?

Give your answers in centimetres.

Whitney

Eva

Whitney's pattern is ☐ cm long.

Eva's pattern is ☐ cm long.

b) Draw some red and blue bricks to make a pattern that would be exactly 36 cm long.

6 Jack, Tommy and Alex took part in a hop, skip and jump competition.

Their distances are shown in the table below.

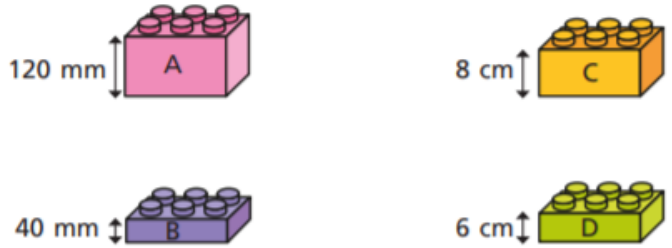
Complete the table to show the total distance each child travelled.

Name	Hop	Skip	Jump	Total
Jack	80 cm	60 cm	1 m 20 cm	
Tommy	70 cm	1 m	1 m 10 cm	
Alex	75 cm	75 cm	1 m	

7 Esther builds a tower using some bricks.

Her tower is 24 cm tall.

Which bricks could she have used?



How many different answers can you find?

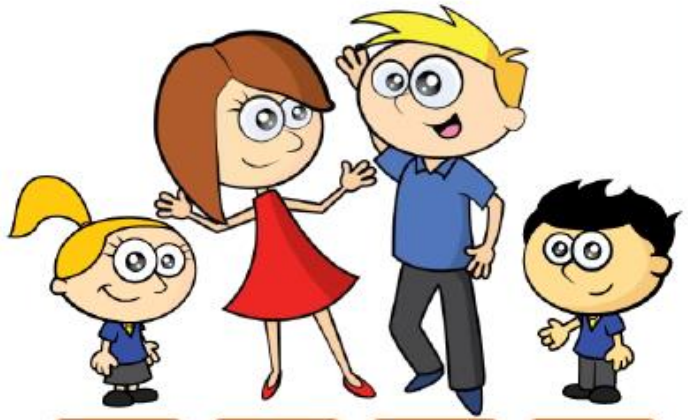
Challenge

Eva is building a tower using these blocks.

100 mm 80 mm 50 mm

How many different ways can she build a tower measuring 56 cm?
Can you write your calculations in mm and cm?

Eva and her brother Jack measured the height of their family.



134 cm	1 m and 60 cm	1 m and 85 cm	1 m and 10 cm

Eva thinks their total height is 4 m and 55 cm

Jack thinks their total height is 5 m and 89 cm

Who is correct? Prove it.