



Year 2 Maths Home Learning | Summer Term



Week Commencing 22nd June

<https://www.bbc.co.uk/bitesize/tags/z7s22sg/year-2-lessons/1>

<https://whiterosemaths.com/homelearning/year-2/>

Maths



If you want to keep your mental maths skills sharp we have included an arithmetic quiz in the Week 8 Home learning folder (with answers!).

After watching the videos and doing the practice activities, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy. **Adults** we have now attached an answer sheet for all of the activities on this worksheet (year 2 home learning page, week 9, answers).

Remember that these activities are to work from, not on. There is no expectation to complete all of the work or to print worksheets off – children can work on paper if they want to write it down. It is also fine for your child to just say the answer, or for instance, where it says 'circle all of the number bonds' it's fine for them to simply point to them! 😊

Extensions – You may wish to deepen your learning by looking at the worksheets provided by the BBC too.

Our Maths focus for this week is **MEASUREMENT**

Monday

Measure Length and Height

Children learn to measure to the nearest centimetre using a ruler or tape measure.

They measure both length and height and focus on the importance of measuring from 0 rather than the end of the ruler or tape measure.

<https://www.bbc.co.uk/bitesize/tags/z7s22sg/year-2-lessons/1>

<https://whiterosemaths.com/homelearning/year-2/>

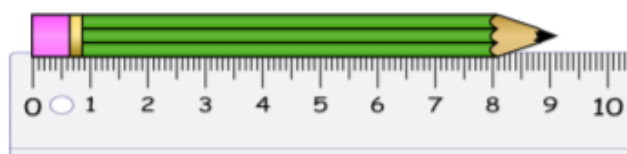
Additional lesson (measurement – capacity and volume): <https://classroom.thenational.academy/lessons/to-be-able-to-read-the-temperature-on-a-thermometer/>

Mild

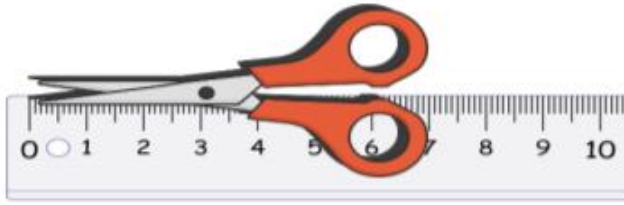
Ask your child: Why is it important to always measure from the 0 on a ruler?



The chocolate bar is ____ cm long.



The pencil is ____ cm long.



The scissors are ____ cm long.



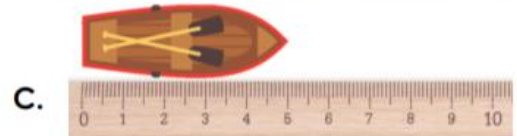
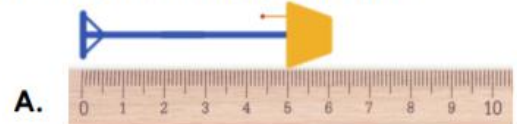
The paper clip is ____ cm long.

How tall is the doll to the nearest centimetre?



cm

1a. Which is the odd one out?



Extra: Write down how long each objects measures.

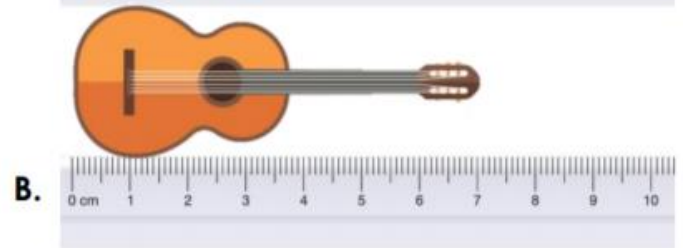
Medium

If an object starts at a number that is not 0, remember when counting you still start from 0.

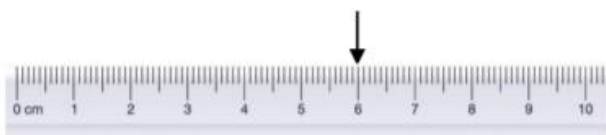
5a. How long are these objects in centimetres?



5b. How long are these objects in centimetres?



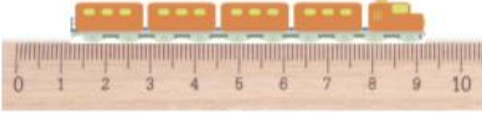
6a. Sam draws a 3cm line. He starts at the arrow. What number will he finish at?



6b. Alex draws a 5cm line. She starts at the arrow. What number will she finish at?



8a. Match the measurement to the toy object.

A.  7cm

B.  8cm

C.  5cm

8b. Match the measurement to the toy object.

A.  3cm

B.  6cm

C.  5cm

Spicy

Find the missing numbers first, then work out the length and then find the odd one out.

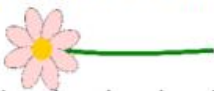
7a. Which is the odd one out?

A.  0 1 3 6 8 9

B.  0 4 6 8

C.  0 3 6 8

7b. Which is the odd one out?

A.  0 3 5 6 8 9

B.  0 2 4 8

C.  0 3 6 8

Rosie measures the length of a tube of sweets.

 The tube is 8 cm long.

 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Amir has a 15 cm ruler.



 I cannot measure anything that is longer than 15 cm.

a) Do you agree with Rosie? _____

Talk about it with a partner.

b) How long is the tube to the nearest centimetre?

 cm

Is Amir correct? _____

How could he measure an object longer than 15 cm?

Tuesday

Compare Length and Height

Children compare lengths of objects using comparison language and symbols. They use language such as longer than, shorter than, taller than, longest, shortest and tallest. Children only compare using the same unit of length in a question.

<https://www.bbc.co.uk/bitesize/tags/z7s22sq/year-2-lessons/1>

<https://whiterosemaths.com/homelearning/year-2/>

Additional lesson (measurement – comparing ml and l's): <https://classroom.thenational.academy/lessons/to-compare-millilitres-and-litres-using-fractions/>

Mild

In today's work you will see **cm (centimetres)** and **m (meters)** - there are **100cm in 1m**.

Match the animals to their estimated lengths.



2cm



12cm

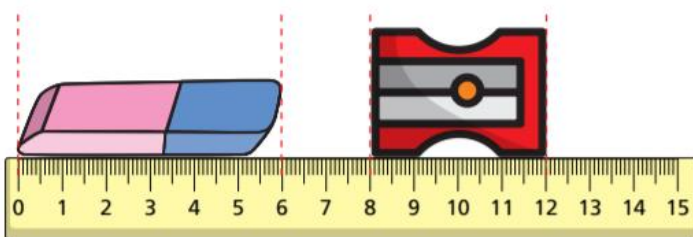
Match the animals to their estimated lengths.



2m



24m



Choose a word to complete the sentences.

shorter

longer

The rubber is _____ than the sharpener.

The sharpener is _____ than the rubber.

Write <, > or = to compare the statements.

a) 9 cm 23 cm

b) fifty metres 50 m

c) one metre 1 cm

Compare Lengths



Compare the lengths of the animals.
Which words complete each sentence?

A longer than

B shorter than

C the same as



12cm

The frog is ___ the lizard.



20cm



10cm

The caterpillar is ___ the butterfly.



10cm



30cm

The toucan is ___ the parrot.



30cm

What does each symbol mean?

What unit have the animals been measured in?

How do you know?

How long is the frog? How long is the lizard?

Can you show me this on a ruler?

Which words would you choose to complete the sentence?

Can you explain why?

Can you find two objects that are shorter than the ruler?

Do you remember how to measure them accurately?

Which is the longest/shortest?

Which sign would you use to compare them?

What if you swapped them around?

Medium

Write digits in the boxes to make the statements correct.

a) cm < 41 cm

b) 14 m < m

c) 14 cm > cm

4a. Fill in the blanks to make the statements true.

3cm is _____ 5cm

12cm is _____ 6cm

14m is _____ 14 metres

longer than

shorter than

the same as

VF

6a. Arrange the measurements from shortest to longest.

four centimetres

9cm

six centimetres

6b. Arrange the measurements from longest to shortest.

six metres

13 metres

12m

Compare Lengths



Use these signs to compare lengths.

 14cm 14cm
 17cm 17m
 1m 11cm

How tall are the animals?

I am 1m taller than the tiger.



I am 10cm shorter than the rabbit.



What do these signs tell us?

What do these letters mean? (cm, m)

Can you show me a centimetre/metre?

Which is longer/shorter? Remember this when you compare the lengths.

Which sign would you choose?

Can you explain your reasoning?

What does the bear mean by 'taller'?

How is this different to 'longer'?

How can we find the height of the bear?

How can we find the height of the mouse?

Find two objects that you can measure with a ruler.

How can you find the difference between the shortest and the tallest object? 'The _____ is _____ cm taller than the _____.'

Spicy

5a. Match the animals to their estimated lengths.

A		12cm
B		4cm
C		95cm

5b. Match the animals to their estimated lengths.

A		85cm
B		35cm
C		1cm

Write <, > or = to compare the statements.

a) $39 \text{ cm} + 9 \text{ cm}$ 47 cm

b) $22 \text{ m} - 6 \text{ m}$ $0 \text{ m} + 15 \text{ m}$

c) $4 \text{ cm} + 13 \text{ cm}$ $20 \text{ m} - 3 \text{ m}$

8b. Fill in the blanks to make the statements true.

7m is _____ 7cm

15cm is _____ 15m

1m is _____ 100cm

longer than

shorter than

the same as

12a. Fill in the blanks to make the statements true.



Lucie is 162cm



Daniel is 2m

Daniel is _____

2m is _____ 200 centimetres

the tallest

the shortest

the same as

VF

12b. Fill in the blanks to make the statements true.



Fabian is 186cm



Sadie is 174cm

Sadie is _____

415cm is _____ 450cm

the tallest

the shortest

not the same as

VF

Wednesday

Solve Problems Involving Height and Length

<https://www.bbc.co.uk/bitesize/tags/z7s22sg/year-2-lessons/1>

<https://whiterosemaths.com/homelearning/year-2/>

Additional lesson (measurement - to solve problems that involve litres):

<https://classroom.thenational.academy/lessons/to-solve-word-problems-about-capacity-and-volume/>

Mild

Eva has a toy car and a toy truck.

The toy car is 12 cm long.

The toy truck is 7 cm longer than the toy car.

a) How long is the toy truck?



b) What is the total length of both toys together?



The length of the pen is 9cm



The length of the pencil is 5cm



What is the total length of the pen and pencil?

The length of the DVD box is 17cm

The length of the lego brick is 4cm



What is the total length of the DVD box and lego brick?

Ben measures the length of a table. It measures 10cm in length. What is the total length of 2 tables?



The length of the glue stick is 20cm

The length of the stapler is 5cm



How much longer is the glue stick?

Medium

Mo measures his pencil at the start of Year 2, halfway through Year 2 and at the end of Year 2

A



B



C



- a) Which picture (A, B or C) shows the pencil at the start of Year 2?

Picture _____

How do you know?

- b) What is the difference between the longest and shortest length?

cm

Jack, Teddy and Aisha buy cards for Dora's birthday.



- Teddy's card is 12 cm high.
- Jack's card is half the height of Teddy's card.
- Aisha's card is 3 cm taller than Teddy's card.

- a) What is the height of Jack's card?

cm

- b) What is the height of Aisha's card?

cm

- c) What is the difference in height between Jack's card and Aisha's card?

cm

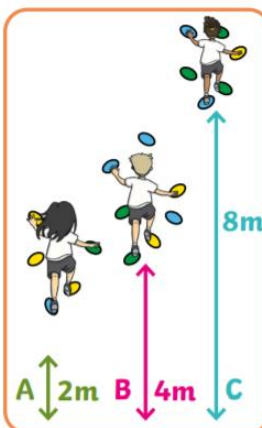
Four Operations with Lengths



Ben has swum twice as far as Ava.
How far has he swum?



How far does each child have to swim to reach the end of the pool?



How many metres will A climb to catch up with C?

How many metres have they climbed altogether?

Can you write your own question?

Spicy

Kim is 87 cm tall and Huan is 78 cm tall.

Kim is taller than Brett.

Huan is shorter than Brett.

Circle all the heights that Brett could be.

80 cm 87 cm 78 cm 86 cm

The Year 2 classroom is 13 m long.

The Year 3 classroom is 8 m longer than the Year 2 classroom.

- a) How long is the Year 3 classroom?

m

Four Operations with Lengths



How far would each girl have run if they were all 2 metres apart?

What about if they were all 5 metres apart?



I rolled my orange marble 65 centimetres.



My red marble rolled 4cm less than the orange.



My purple marble rolled 12cm more than the orange.

How many centimetres did each marble roll?

Which marble rolled the closest to 50cm?

Can you prove it?

Four Operations with Lengths



Mia

Kris

Beth

Kris jumped twice as high as Mia. How high did Mia jump?

Beth jumped 3 times higher than Mia. How high did Beth jump?



My skipping rope is 2m long. How many metres of rope would make 10 skipping ropes?

How many skipping ropes can I make from 10 metres of rope?

What about 12 metres?

Thursday

Compare Mass

Mass refers to the weight of an object. It is measured in grams (g) and kilograms (kg). The size of something does not determine how much matter an object has. A golf ball and a ping-pong ball are the same size however a golf ball is solid while a ping-pong ball is hollow.

<https://www.bbc.co.uk/bitesize/tags/z7s22sq/year-2-lessons/1>

<https://whiterosemaths.com/homelearning/year-2/>

Additional lesson (measurement - to solve problems part 2):

<https://classroom.thenational.academy/lessons/to-solve-word-problems-about-capacity-and-volume-part-two/>

Mild

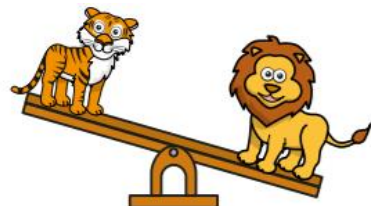
Use the words **heavier** or **lighter** to complete the sentences.

a)



The ball is _____ than the teddy.

b)



The tiger is _____ than the lion.

2a. Use the words 'more' or 'less' to complete the sentence.

A car weighs _____
than a bike.

2b. Use the words 'more' or 'less' to complete the sentence.

A balloon weighs
_____ than a rugby
ball.

3a. Which is lighter? Which is heavier?

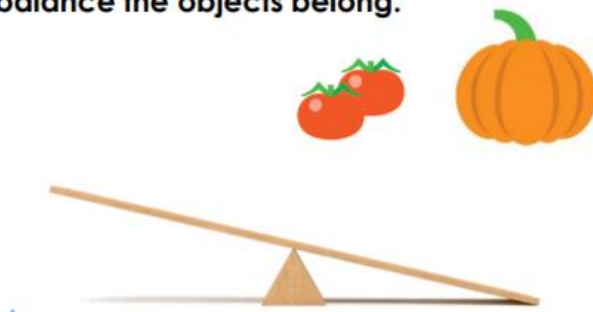


3b. Which is lighter? Which is heavier?

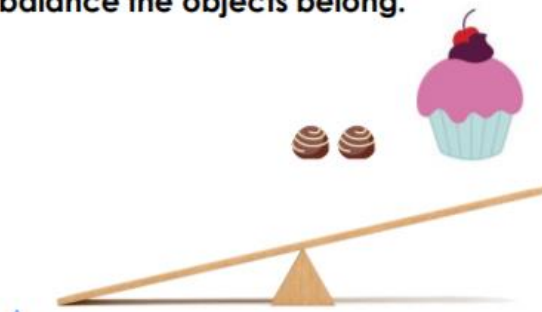


Medium

5a. Draw lines to show which side of the balance the objects belong.



5b. Draw lines to show which side of the balance the objects belong.



6a. Use the words 'more' or 'less' to complete the sentence.

A pair of shoes weighs
_____ than a pair of
socks.

6b. Use the words 'more' or 'less' to complete the sentence.

Two empty cups weigh
_____ than two full
cups.

Tick the heavier object on each scale.

a)



b)





Katie measured the mass of all the items in her lunchbox using cubes. She recorded the results in a table.

Item	Mass in Cubes
sandwich	25
crisps	12
yoghurt	22
biscuit	10
apple	30

Order the items from heaviest to lightest.

Which item is the second heaviest?

How many biscuits have the same mass as one apple?

What has the girl used in her balance scale to help measure the mass of the items in her lunchbox?

What is the mass of the sandwich?

Which item has a mass of 22 cubes?

Which is the heaviest? How do you know?

Can you order all the items starting with the heaviest?

What is the mass of the apple?

What is the mass of one biscuit?

How many biscuits would have the same mass as one apple?

Spicy

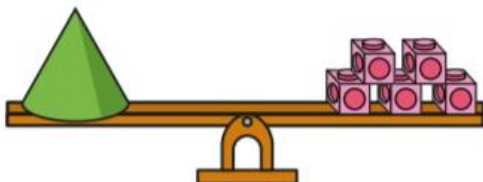
What is the mass of each object?

a)



cubes

b)



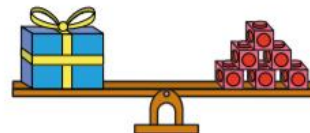
cubes

c) Which object is heavier? _____

Which object is heavier?

Tick your answer.

a)



or



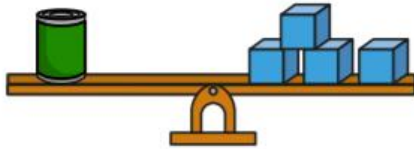
b)



or



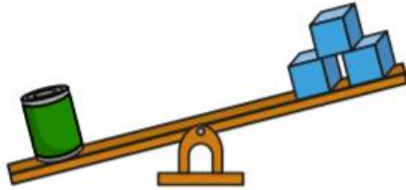
Dora balances a tin with blocks.



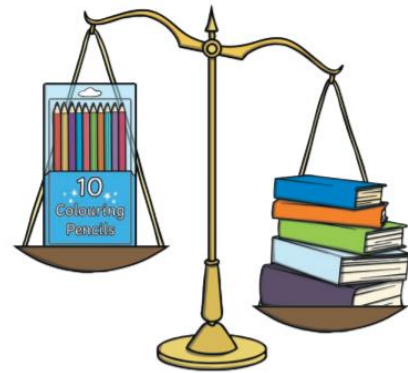
a) Complete the sentence.

1 tin has the same mass as blocks.

b) Explain why these scales do not balance.



True or false?



5 books have a greater mass than 10 pencils.

1 book has the same mass as 1 pencil.

20 pencils have a smaller mass than 10 books.

5 pencils have the same mass as 5 books.

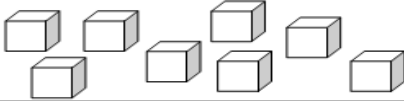
Friday

Key skills Quiz and Time Table Rock Stars

Quiz

Mild

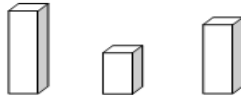
11. Circle $\frac{1}{2}$ of the bricks.



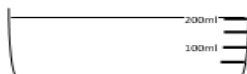
12. What fraction of the counters are black?



13. Circle the **tallest** tower.



14. How much water is in the bowl?



15. How much altogether?



Medium/Spicy

11. $6 \times 5 =$

12. Which are the odd numbers?

9 18 27 36

13. What symbol is missing?

5×9 45

14. What symbol is missing?

28 4 = 7

15. Is this true? Write 'yes' or 'no'.

$9 \div 3 = 3 \div 9$

16. 7 flowers each have 3 petals. How many petals are there in total?

Times Table Rock stars

Have a go at your times tables on TTRockstars this week. Maybe you could battle with one of your friends? We can't wait to see how much your times tables have improved!



Times Table Rock Star Battle- We have organised a "battle" between each class in our year group. The start date is today and the finishing date is Friday 26th June so the results will be published that week on twitter. Get battling and lets see who wins!!!

Well done girls and boys, you have finished week 9!

We are so proud of your efforts 😊