

Length & Height

Master The Curriculum



1

Fluency & Reasoning Teaching Slides

Compare Lengths & Heights 1



Fluency & Reasoning Teaching Slides

www.masterthecurriculum.co.uk

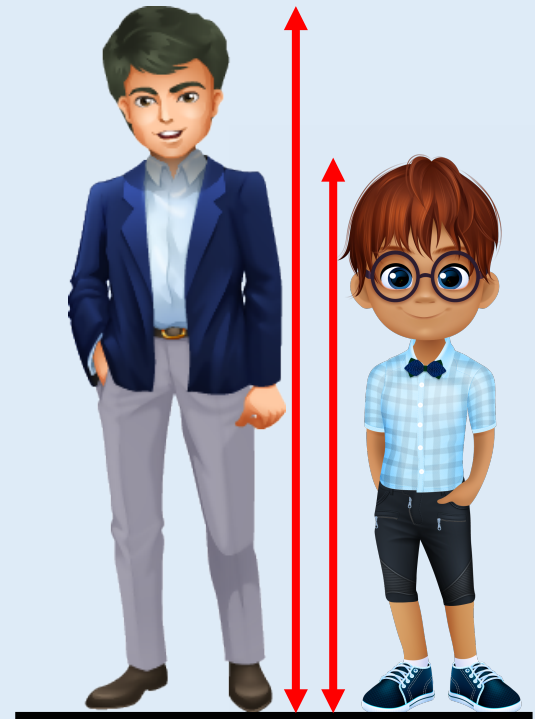
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the man and the boy.

The man is than the boy.

The boy is than the man.



Which person is taller/shorter?

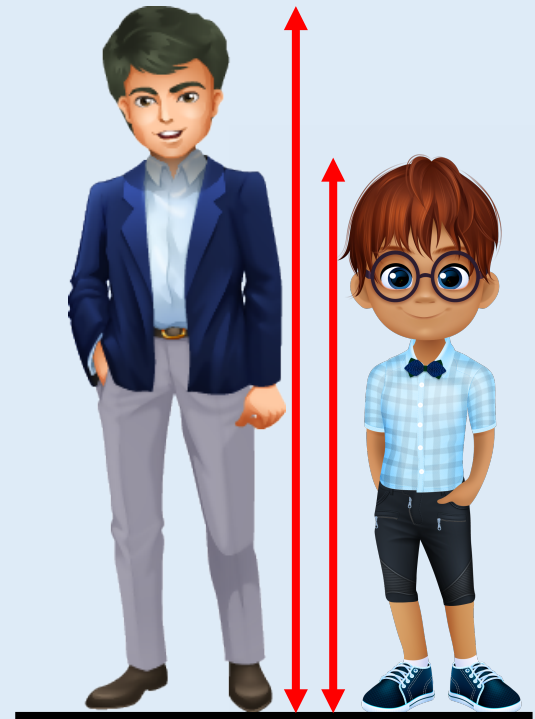
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the man and the boy.

The man is **taller** than the boy.

The boy is **shorter** than the man.



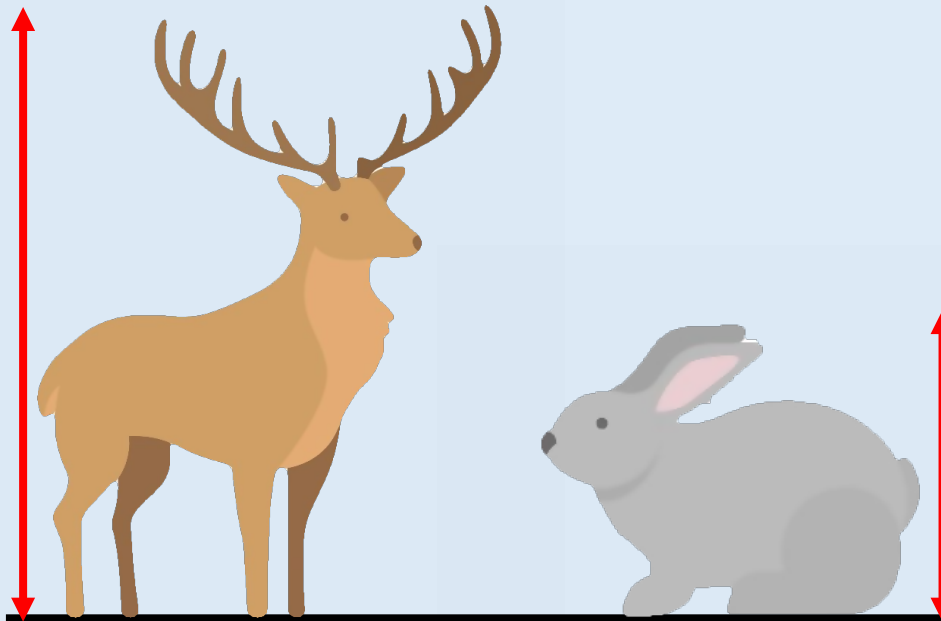
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the deer and the mountain hare.

The deer is than the mountain hare.

The mountain hare is than the deer.



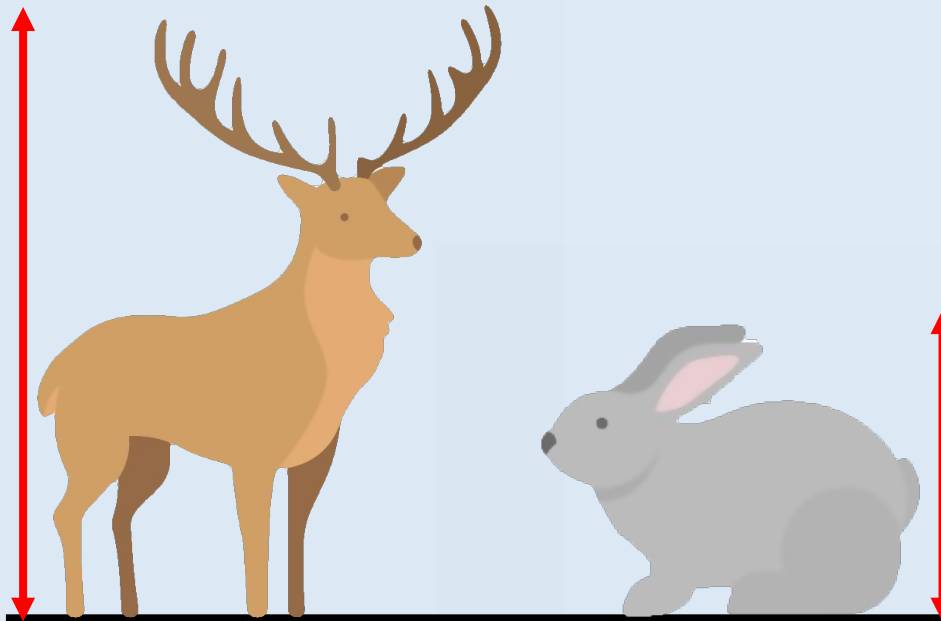
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the deer and the mountain hare.

The deer is **taller** than the mountain hare.

The mountain hare is **shorter** than the deer.



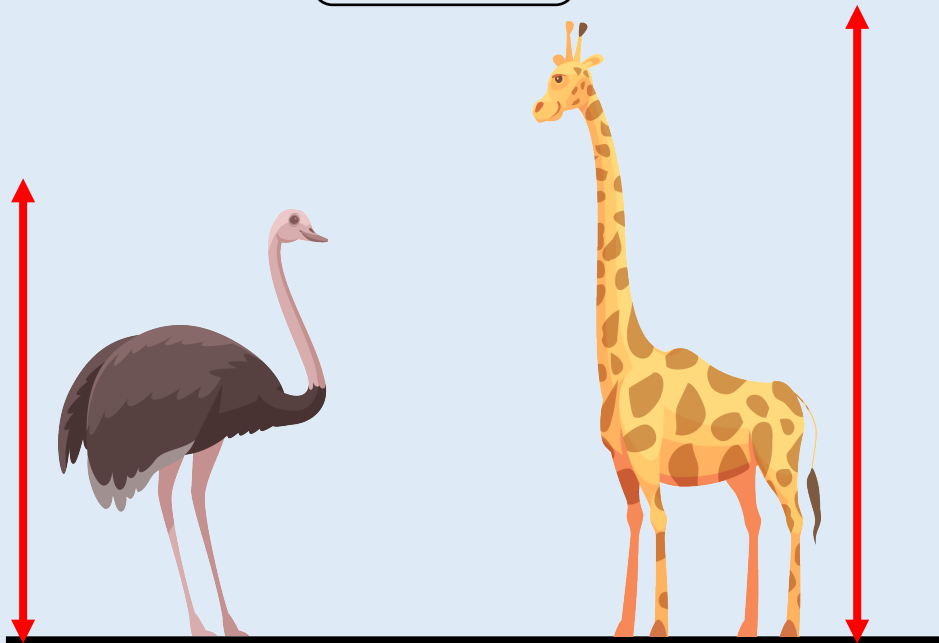
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the ostrich and the giraffe.

The ostrich is than the giraffe.

The giraffe is than the ostrich.



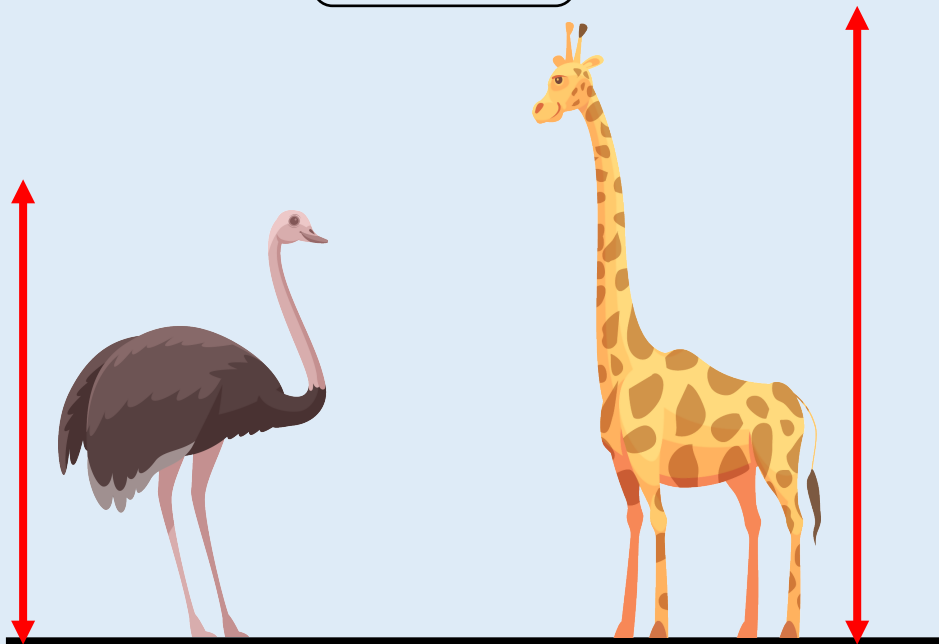
Activity 1

Compare Lengths & Heights

Use the words taller and shorter in the sentence stems to compare the height of the ostrich and the giraffe.

The ostrich is **shorter** than the giraffe.

The giraffe is **taller** than the ostrich.



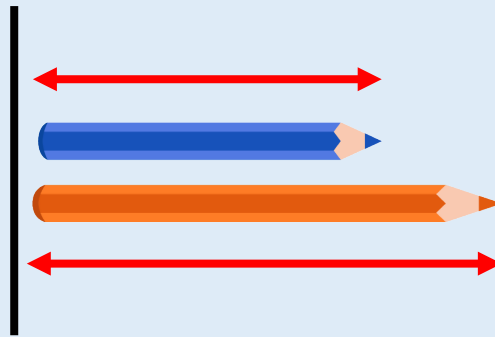
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the blue pencil and the orange pencil.

The blue pencil is than the orange pencil.

The orange pencil is than the blue pencil.



Which pencil is shorter/longer?

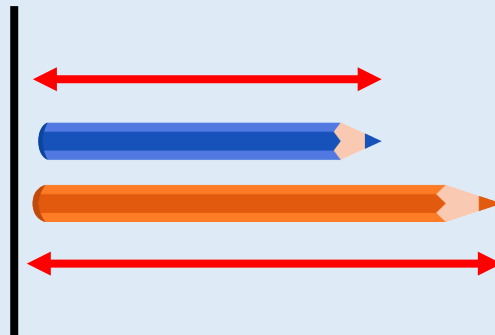
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the blue pencil and the orange pencil.

The blue pencil is **shorter** than the orange pencil.

The orange pencil is **longer** than the blue pencil.



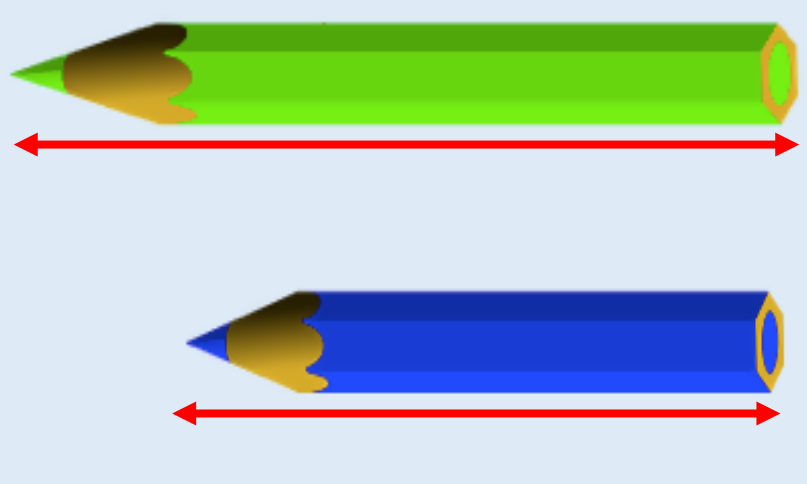
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the pencils.

The blue pencil is than the green pencil.

The green pencil is than the blue pencil.



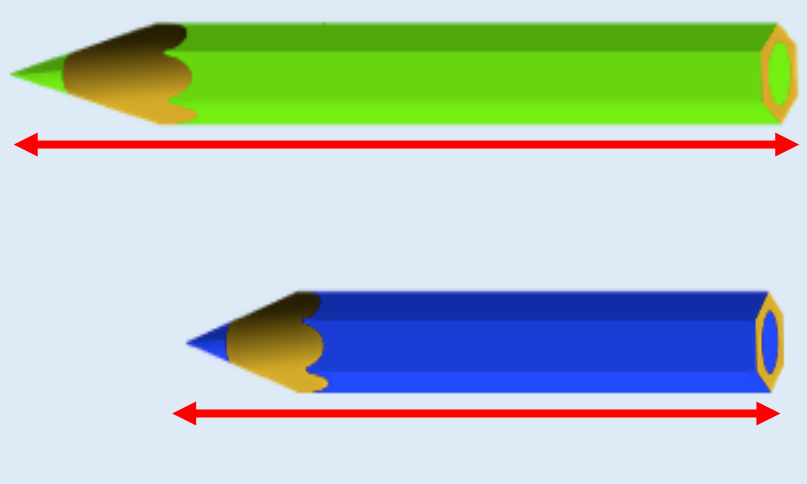
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the pencils.

The blue pencil is **shorter** than the green pencil.

The green pencil is **longer** than the blue pencil.



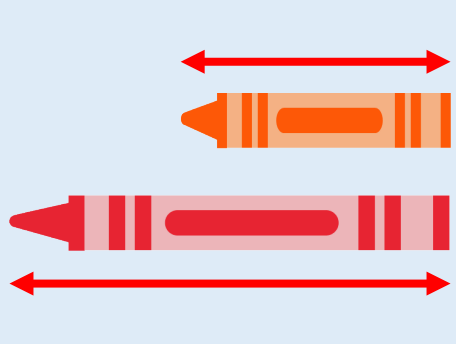
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the crayons.

The orange crayon is than the red crayon.

The red crayon is than the orange crayon.



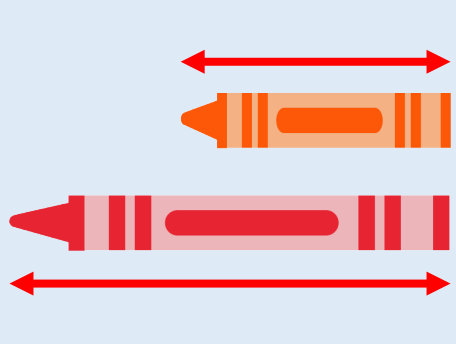
Activity 2

Compare Lengths & Heights

Use the words longer and shorter in the sentence stems to compare the length of the crayons.

The orange crayon is **shorter** than the red crayon.

The red crayon is **longer** than the orange crayon.



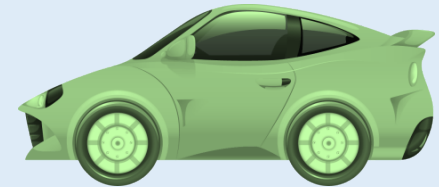
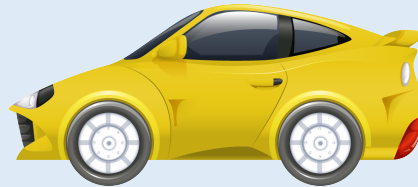
Activity 3

Compare Lengths & Heights

Compare the vehicles using the words to help you.

Length
Longer
Taller

height
same
shorter



How many different sentences can you make to compare the vehicles?

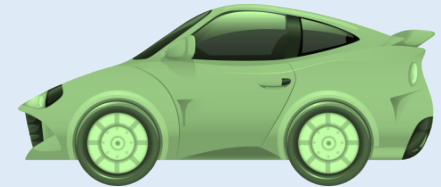
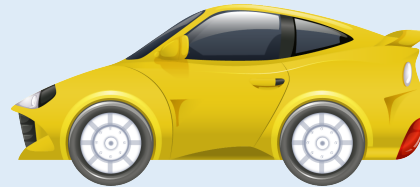
Activity 3

Compare Lengths & Heights

Compare the vehicles using the words to help you.

Length
Longer
Taller

height
same
shorter



The van is **longer** than the two cars.

The two cars are **shorter** than the van.

The two cars have the **same length**.

Activity 3

Compare Lengths & Heights

Compare the trees using the words to help you.



Longer	taller
Higher	long
Equal	smaller
Shorter	small
Same	

Activity 3

Compare Lengths & Heights

Compare the trees using the words to help you.

Longer	taller
Higher	long
Equal	smaller
Shorter	small
Same	



The first tree is **taller** than the second tree.

The second tree is **shorter** than the first.

Rosie, Zach and Malachi are comparing the height of Mr. Smith and Tia.

Mr. Smith



Tia



Mr. Smith is tall than Tia.



Rosie

Tia is short than Mr. Smith.



Zach

Mr. Smith is longer than Tia.



Malachi

Can you improve their sentences to make them more accurate?

Rosie, Zach and Malachi are comparing the height of Mr. Smith and Tia.

Mr. Smith



Tia



Possible answer:

Rosie – Mr. Smith is **taller** than Tia.

Zach – Tia is **shorter** than Mr. Smith.

Malachi – Mr. Smith is **taller** than Tia.

Taller is a better word than longer because we are comparing height.

Esin thinks the pencils are the same length.



How can Esin check if she is correct?

Esin thinks the pencils are the same length.

Esin needs to line up one end of the pencils and see which is longer.



Using classroom equipment, can you find an object which is shorter than your rubber but longer than your pencil?



Can you find a friend who is taller than you but shorter than your other friend?

Using classroom equipment, can you find an object which is shorter than your rubber but longer than your pencil?

Children could explore other items and situations where they are asked to compare more than two objects.

Which person is taller/shorter?

Which pencil is shorter/longer?

Are we measuring the height or length of something?

What is the same? What is different?

How many different sentences can you make to compare the vehicles? Say them to your partner.

Measure Length (1)

1

Fluency & Reasoning Teaching Slides

www.masterthecurriculum.co.uk



Activity 1

Measure Length (1)

Use cubes to measure the length of objects around your classroom.
Write a sentence for each project.



The pencil is cubes long.

The is cubes long.



What other things could you use to measure how long pencil is?

Activity 1

Measure Length (1)

Use cubes to measure the length of objects around your classroom.
Write a sentence for each project.



The pencil is cubes long.

The is cubes long.

Activity 1

Measure Length (1)

Use cubes to measure the length of objects around your classroom.
Write a sentence for each project.



The pencil is cubes long.

The is cubes long.

Activity 2

Measure Length (1)

Mr. Andrews is 5 sticks tall. Choose a suitable piece of equipment to measure how tall your friend is.



What could you use to measure how tall you are?

Activity 2

Measure Length (1)

Mr. Andrews is 5 sticks tall. Choose a suitable piece of equipment to measure how tall your friend is.

Mr. Andrew's height can be measured using a metre stick or a measuring tape.
The 5 sticks can be measured with this equipment.



Activity 2

Measure Length (1)

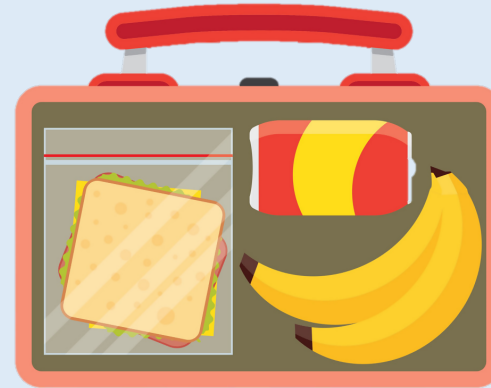
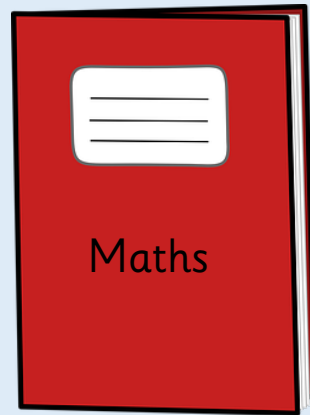
Rosie is 3 sticks tall. Choose a suitable piece of equipment to measure how tall your friend is.



Activity 3

Measure Length (1)

Which is longer – your maths book or a lunch box?
Choose a unit to measure the objects to check you are correct.



The is longer than the .

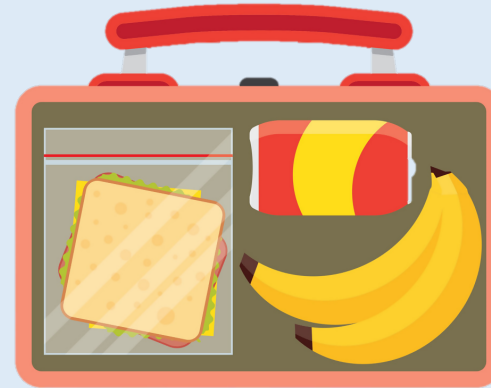
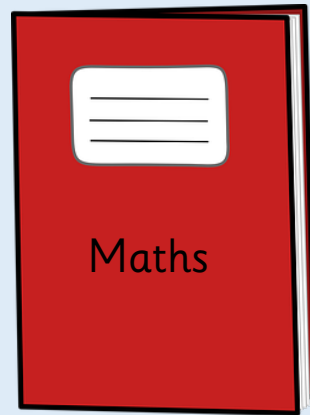


Why is it important to measure in a straight line?

Activity 3

Measure Length (1)

Which is longer – your maths book or a lunch box?
Choose a unit to measure the objects to check you are correct.



The **lunch box** is longer than the **maths book**.

Activity 3

Measure Length (1)

Which is longer – the table or the blackboard?
Choose a unit to measure the objects to check you are correct.

The is longer than the .



Activity 3

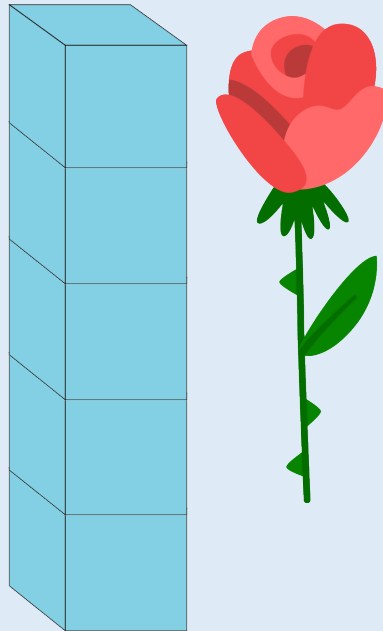
Measure Length (1)

Which is longer – the table or the blackboard?
Choose a unit to measure the objects to check you are correct.

The **blackboard** is longer than the **table** .

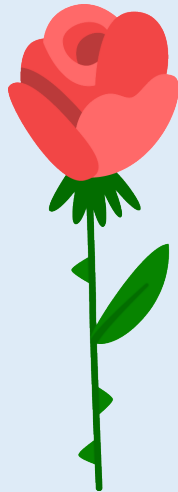
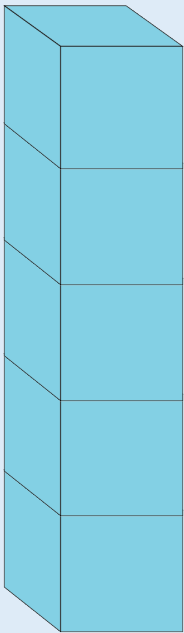


True or False?



The flower is 5 cubes tall.
Explain your answer.

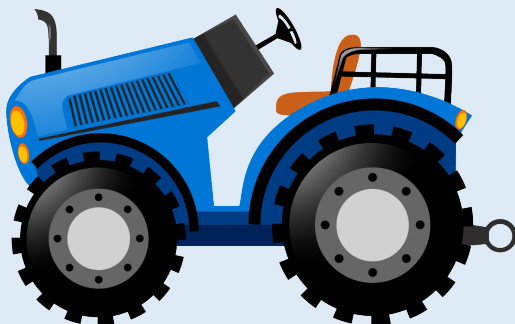
True or False?



False, because the cubes should be level with the top of the flower.

The flower is about 4 cubes tall.

Zach measures the length of two toys.

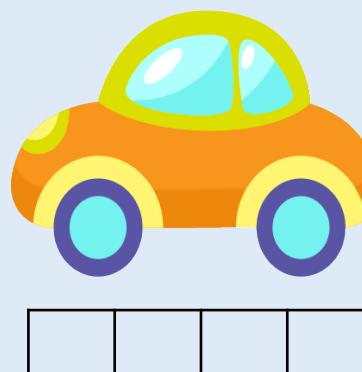
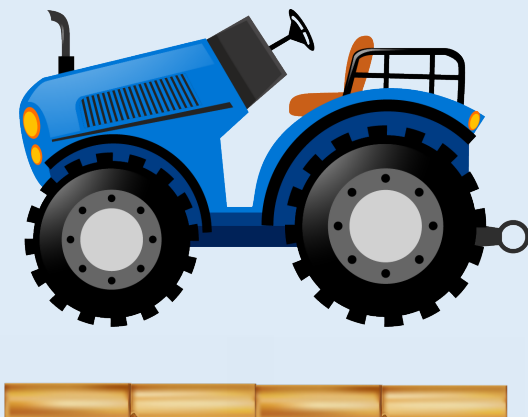


Zach

The toys are the same length.

Do you agree with Zach?
Explain your answer.

Zach measures the length of two toys.



Zach is wrong. Both toys are 4 units long, but the stick and cubes are different lengths so the toys are not the same length.

What other things could you use to measure how long a pencil is?

What could you use to measure how tall you are? Is it easier to measure someone lying down or standing up?

What could you use to measure the length of your classroom?

Why is it important to measure in a straight line?

Measure Length (2)

1

Fluency & Reasoning Teaching Slides

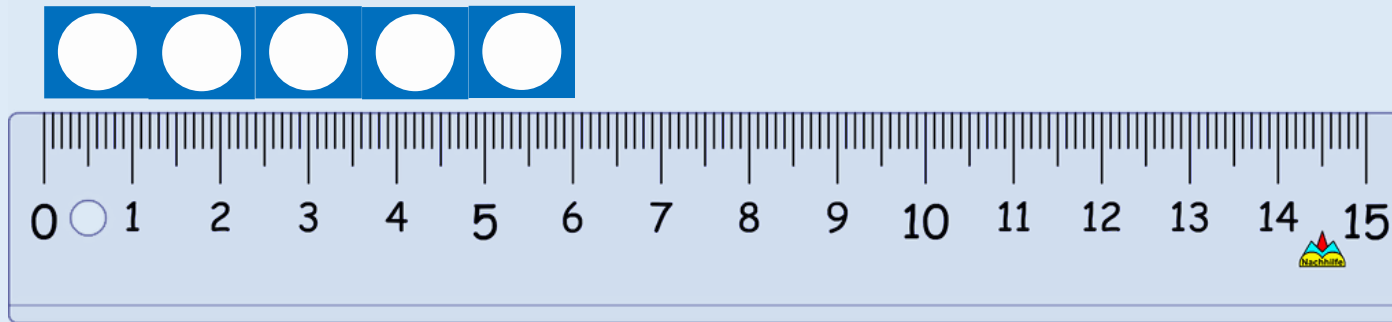
www.masterthecurriculum.co.uk



Activity 1

Measure Length (2)

How long is the building block?



The building block is cm.

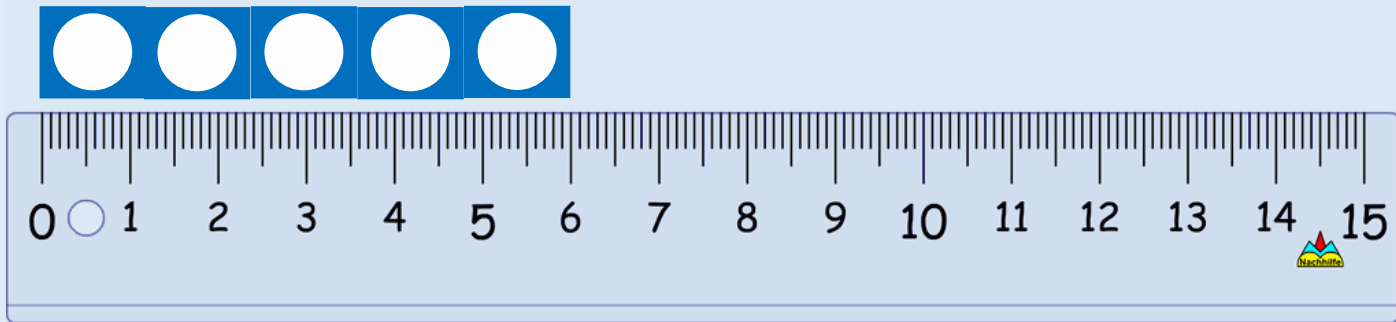


What do the numbers on the ruler mean? (1 cm etc.)

Activity 1

Measure Length (2)

How long is the building block?

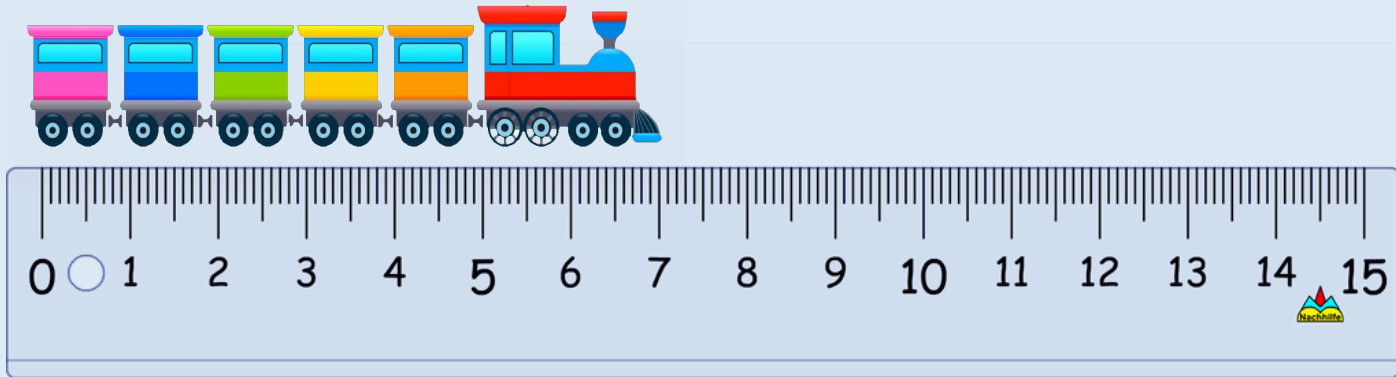


The building block is 6 cm.

Activity 1

Measure Length (2)

How long is the toy train?

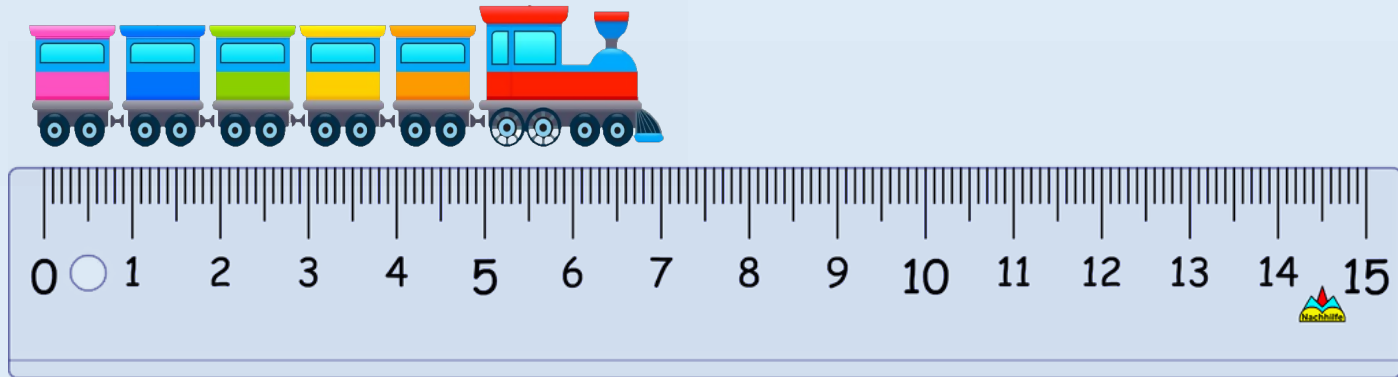


The toy train is cm.

Activity 1

Measure Length (2)

How long is the toy train?

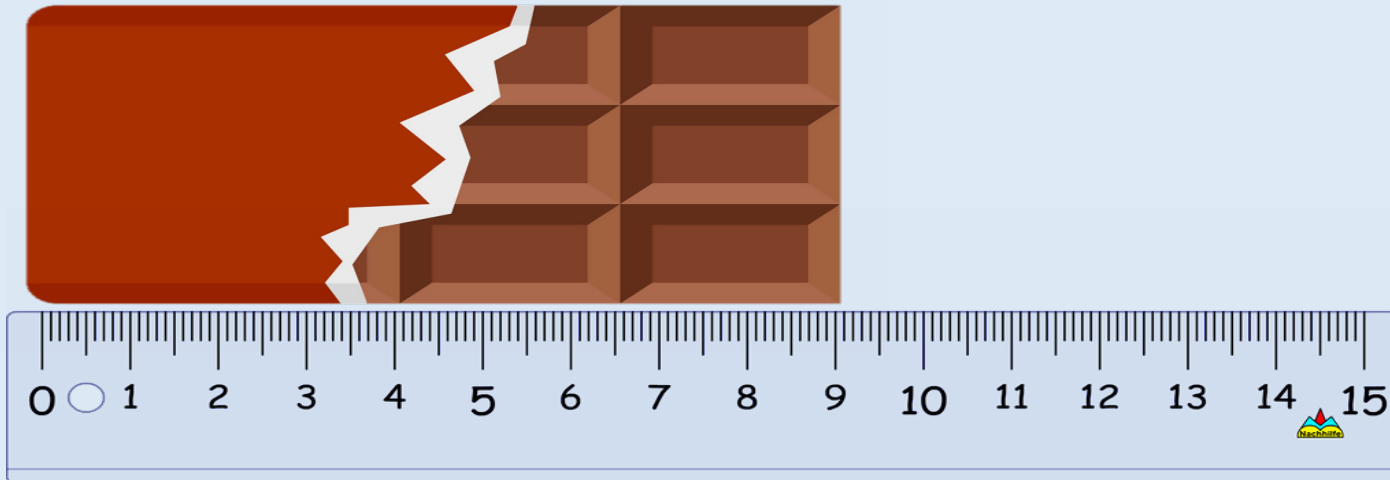


The toy train is 7 cm.

Activity 2

Measure Length (2)

What is the length of the chocolate bar?



The chocolate bar is cm.

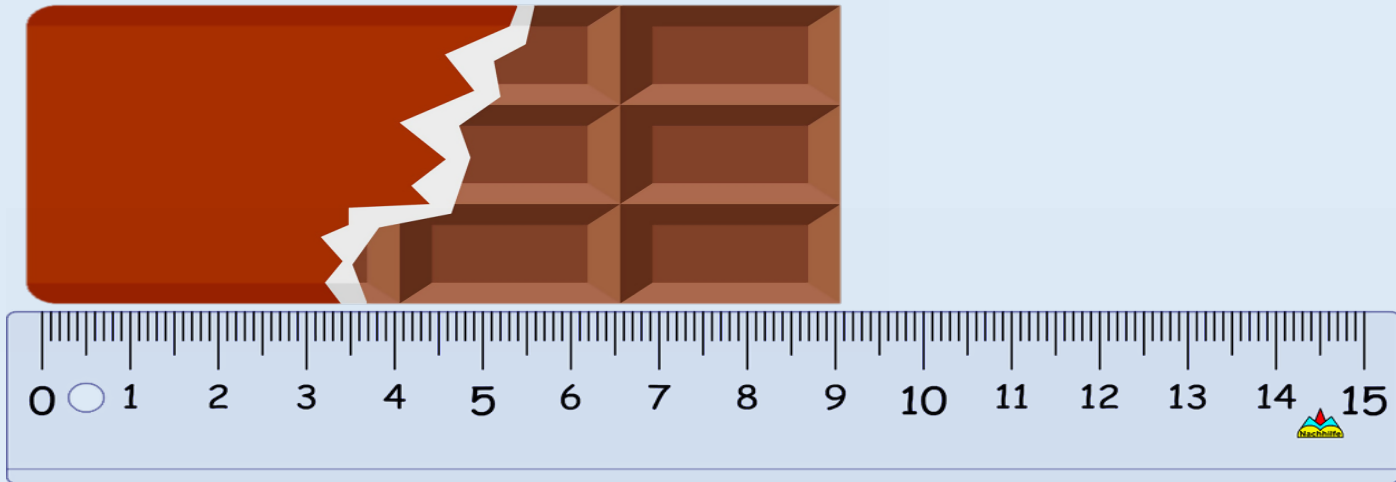


Where should we place the object to start measuring it?

Activity 2

Measure Length (2)

What is the length of the chocolate bar?



The chocolate bar is

9

cm.

Activity 2

Measure Length (2)

What is the length of the toy car?



The toy car measures cm.

Activity 2

Measure Length (2)

What is the length of the toy car?

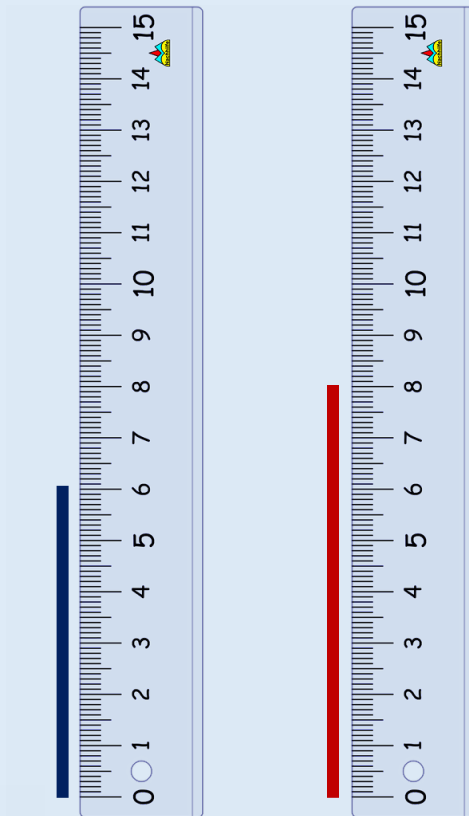


The toy car measures 6 cm.

Activity 3

Measure Length (2)

Which straw is the tallest?



The blue straw is cm tall.

The red straw is cm tall.

The straw is the tallest.

The straw is the shortest.

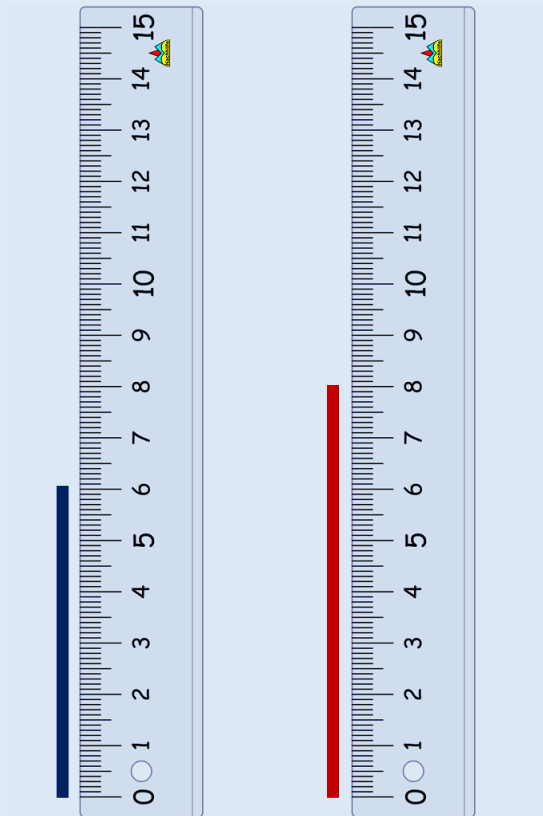


Can you count how many cm the ____ measures?

Activity 3

Measure Length (2)

Which straw is the tallest?



The blue straw is **6** cm tall.

The red straw is **8** cm tall.

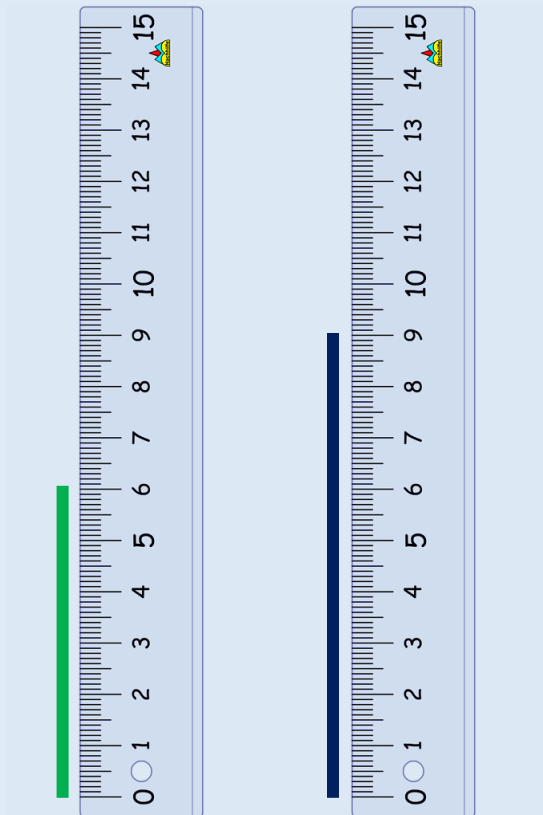
The **red** straw is the tallest.

The **blue** straw is the shortest.

Activity 3

Measure Length (2)

Which string is the tallest?



The green string is cm tall.

The blue string is cm tall.

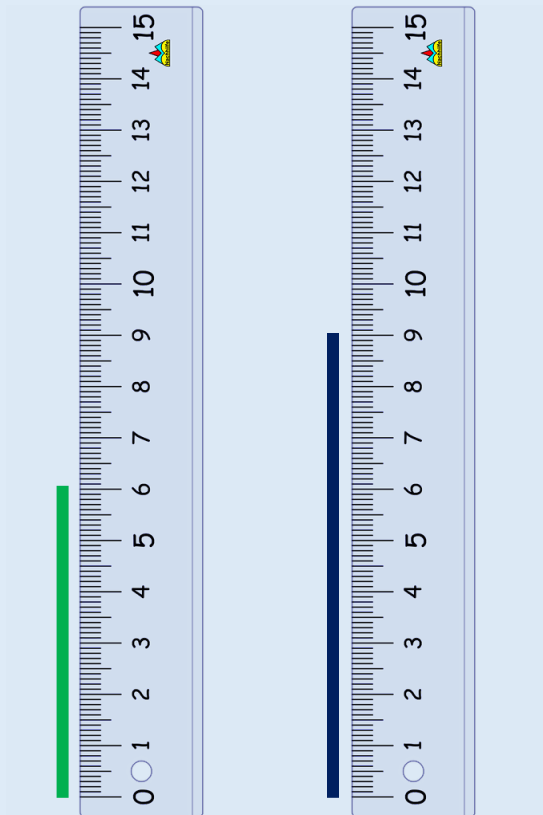
The string is the tallest.

The string is the shortest.

Activity 3

Measure Length (2)

Which string is the tallest?



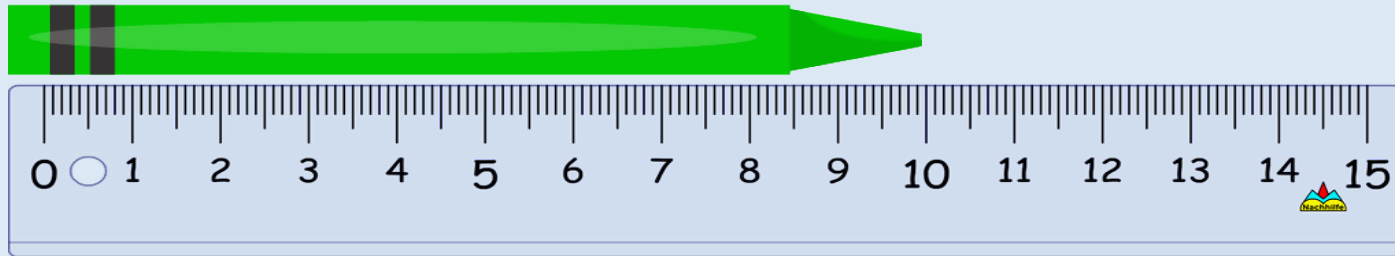
The green string is cm tall.

The blue string is cm tall.

The string is the tallest.

The string is the shortest.

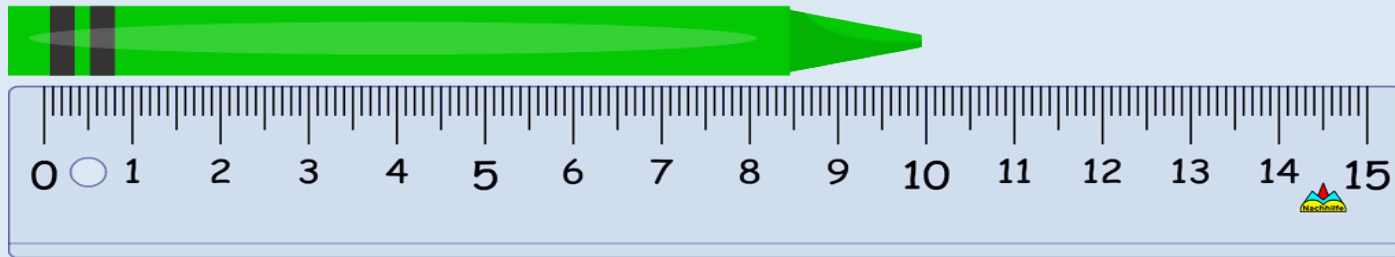
Malachi measures the length of the crayon.



The length of the crayon is 10 cm.

Do you agree with Malachi?
Explain why.

Malachi measures the length of the crayon.



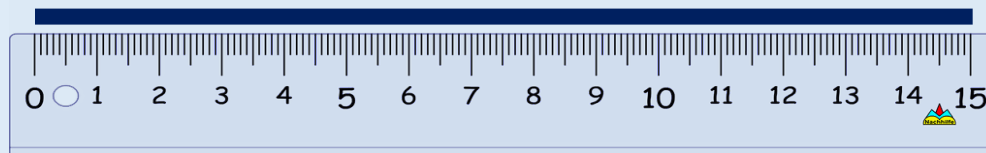
Malachi is wrong because he has started measuring from the end of the ruler not from 0.

Esin, Tia and Rosie are comparing ribbons that they have. Unfortunately, Tia has lost her ribbon.

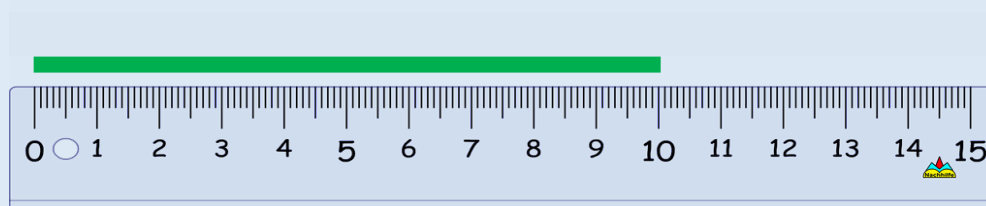


My ribbon is shorter than Esin's, but longer than Rosie's.

Esin



Rosie



How long could Tia's ribbon be?

Esin, Tia and Rosie are comparing ribbons that they have.
Unfortunately, Tia has lost her ribbon.



My ribbon is shorter than Esin's,
but longer than Rosie's.

Possible answers:

11 cm

12 cm

13 cm

14 cm

What do the numbers on the ruler mean? (1 cm etc.)

Where should we place the object to start measuring it?

Does the ruler look like anything else we have used? (number line)

Can you count how many cm the ____ measures?

How does using a ruler help us to compare objects?