



Maths

Measurement

Noah's Ark



twinkl

Aim

- To compare and order lengths using $>$, $<$ and $=$.

Success Criteria

- I can use language, such as 'longer' and 'shorter' to compare lengths.
- I can order objects by length.
- I can use the $>$, $<$ and $=$ signs to compare lengths.

A Long Order



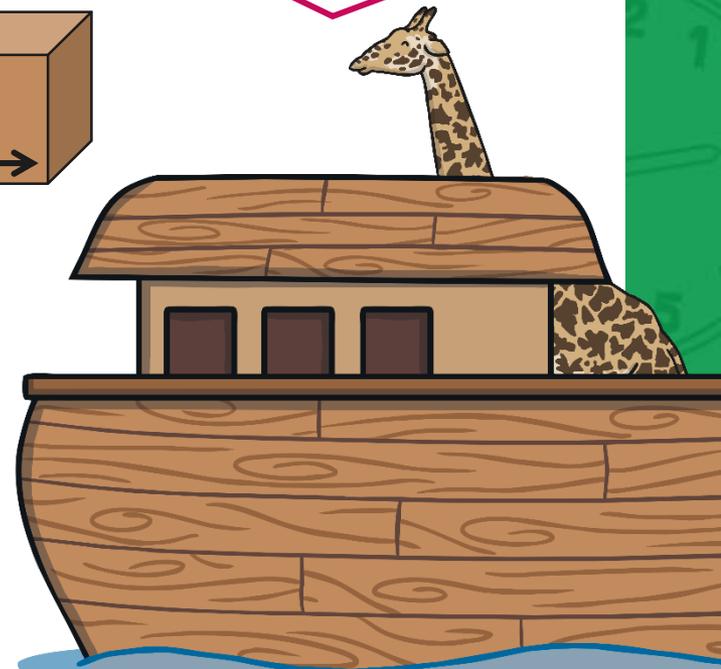
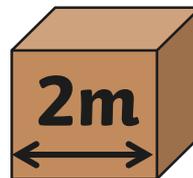
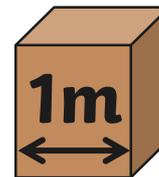
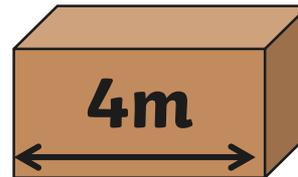
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Which is the longest container?

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Which is the shortest?

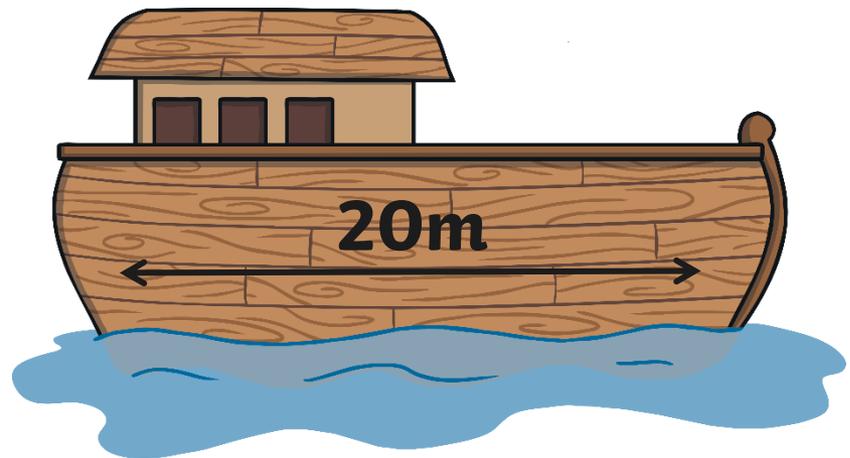
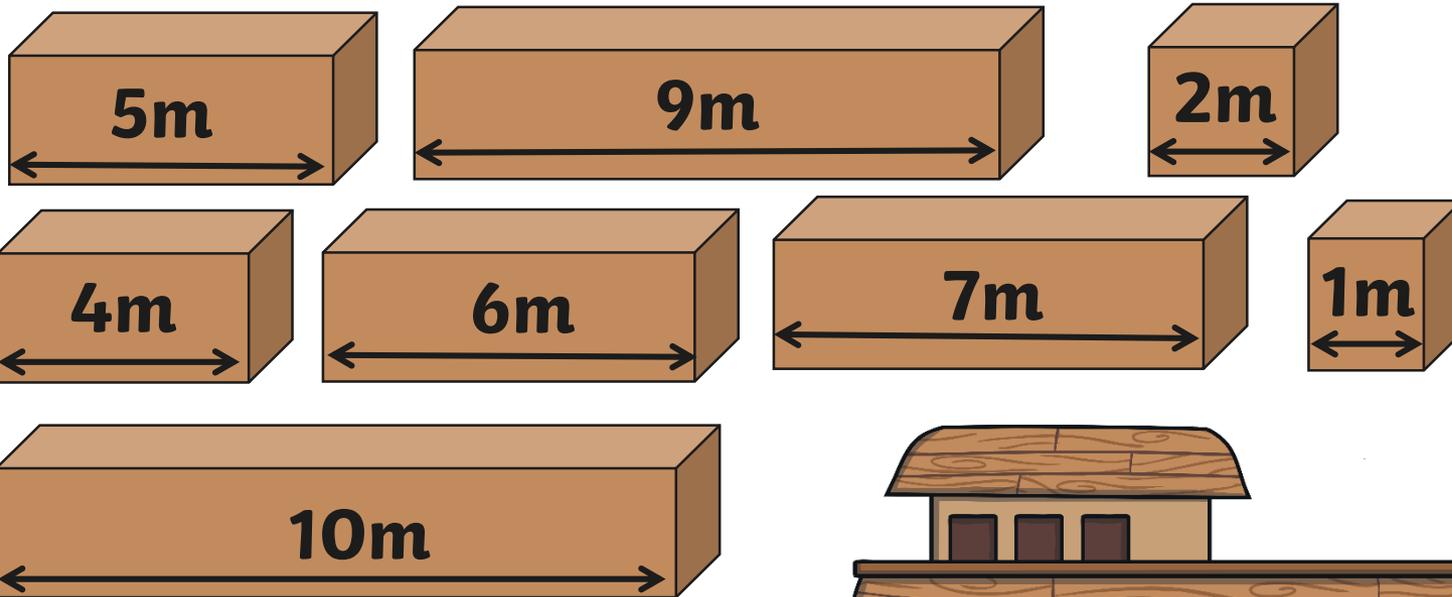
Can you order them from shortest to longest?



A Long Order



Which containers could you place side-by-side to make the distance the same length as Noah's ark? There is only one of every container.



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Can you find more than one way of doing it?

A Long Order



$$10\text{m} + 9\text{m} + 1\text{m} = 20\text{m}$$

$$10\text{m} + 6\text{m} + 4\text{m} = 20\text{m}$$

$$10\text{m} + 5\text{m} + 4\text{m} + 1\text{m} = 20\text{m}$$

$$9\text{m} + 7\text{m} + 4\text{m} = 20\text{m}$$

$$9\text{m} + 6\text{m} + 5\text{m} = 20\text{m}$$

$$9\text{m} + 6\text{m} + 4\text{m} + 1\text{m} = 20\text{m}$$

$$9\text{m} + 5\text{m} + 4\text{m} + 2\text{m} = 20\text{m}$$

$$7\text{m} + 6\text{m} + 5\text{m} + 2\text{m} = 20\text{m}$$

$$7\text{m} + 6\text{m} + 4\text{m} + 2\text{m} + 1\text{m} = 20\text{m}$$

Did you find another way?

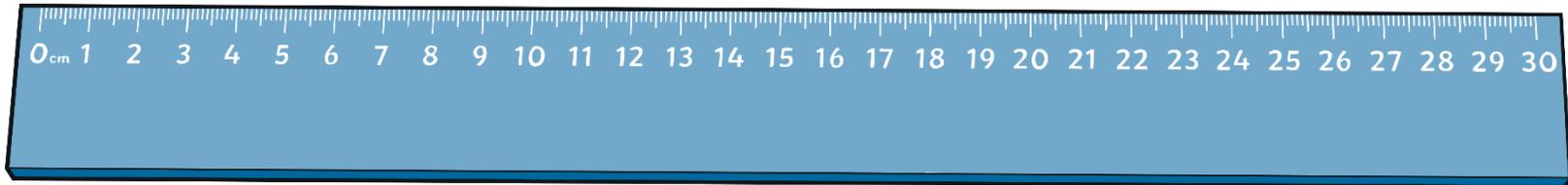


Jungle Lengths



Length is the distance from one end of an object to the other.

Length can be measured in centimetres.



The length of this worm is 9 centimetres long.

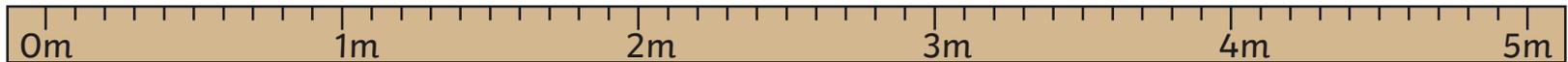
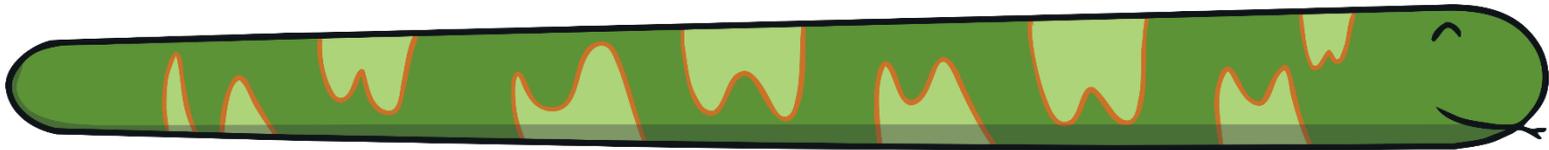
We can also write 9cm for short.



Jungle Lengths



Length can also be measured in metres.
1 metre is the same as 100 centimetres.



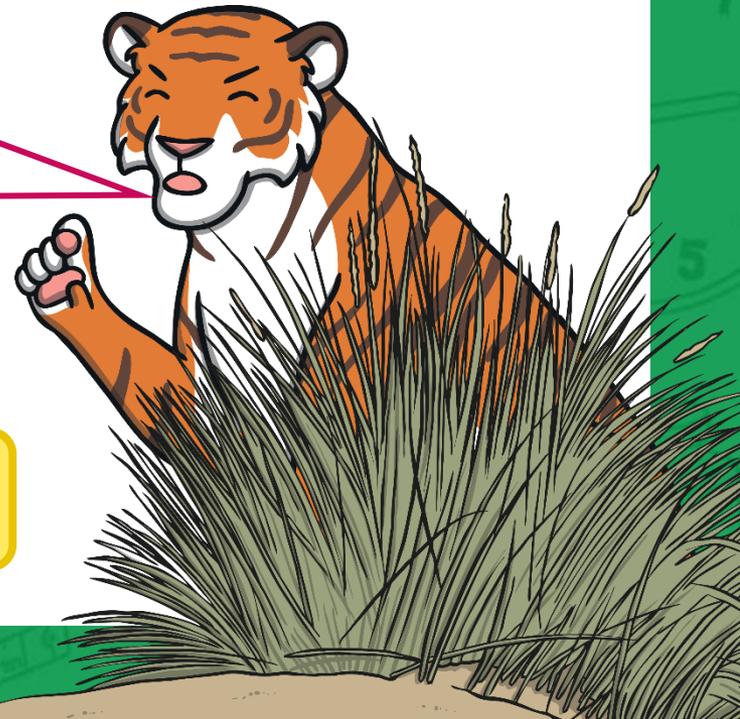
The length of this snake is 5 metres long.
We can also write 5m for short.

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Which of these animals is the longest?

?

Which of these animals is the shortest?



Jungle Lengths

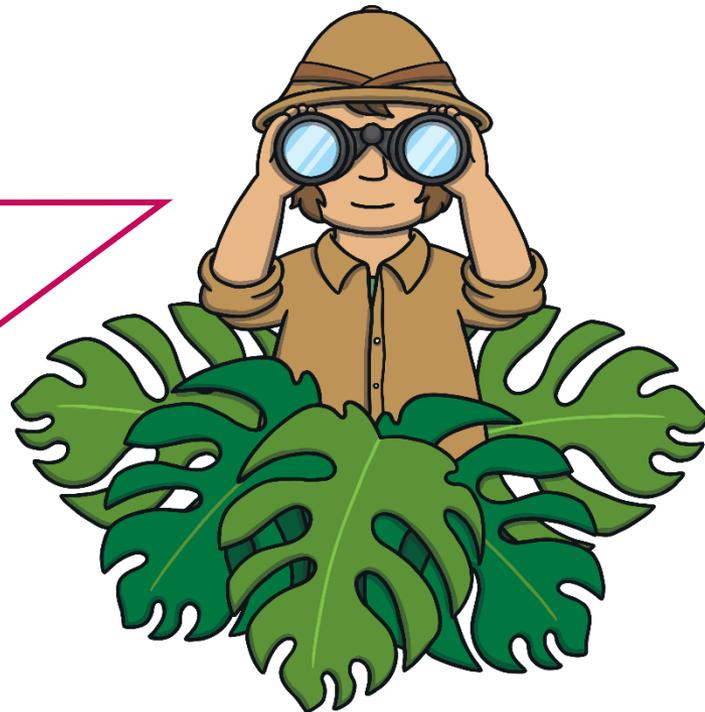


Compare the lengths of the animals to the nearest metre.



Click on an animal when it appears from the jungle to measure it. Compare the animals to the nearest metre.

Click here to start exploring.





How much longer is the lizard than the sloth?

sloth

lizard

The sloth is 1m longer than the lizard.



Show Measurement Lines





How much longer is the tapir than the toucan?

toucan

tapir

The tapir is 2m longer than the toucan.



Show Measurement Lines



?

How much longer is the crocodile than the tiger?

crocodile

tiger

The crocodile is
1m longer than
the tiger.



Show Measurement Lines





How much longer is the gorilla than the tortoise?

tortoise

gorilla

The gorilla is 1m longer than the tortoise.



Show Measurement Lines

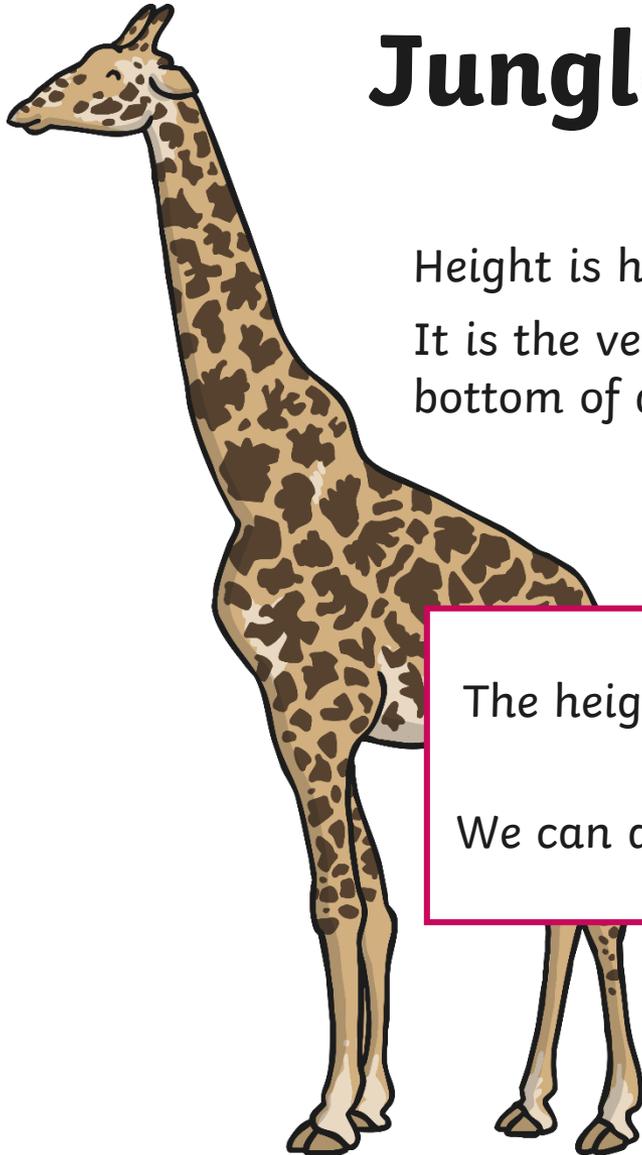




Jungle Lengths

Height is how tall something is.

It is the vertical distance from the top to the bottom of an object.



The height of this giraffe is 6 metres tall.

We can also write this as 6m.

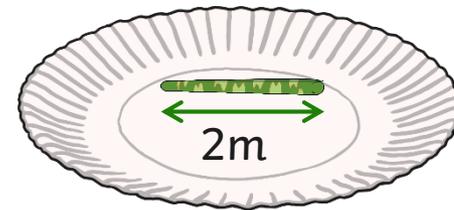
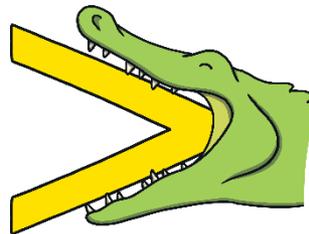
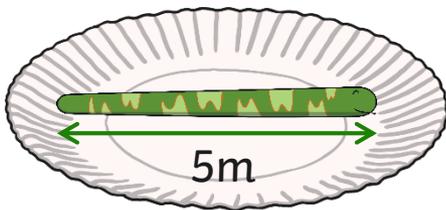


Compare the Animals

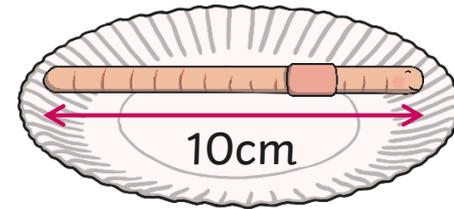
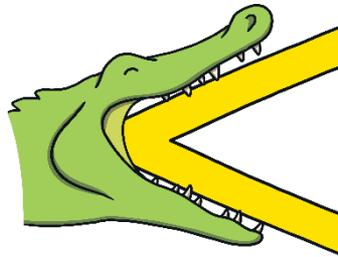
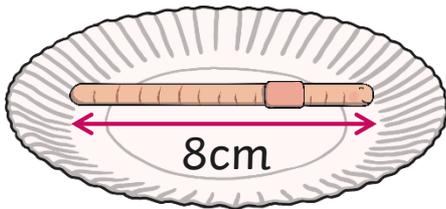


Chomp is a greedy crocodile and will always eat the greater number.

Here, Chomp eats the snake on the left because it has a greater length.



Here, Chomp eats the worm on the right because it has a greater length.



Compare the Animals

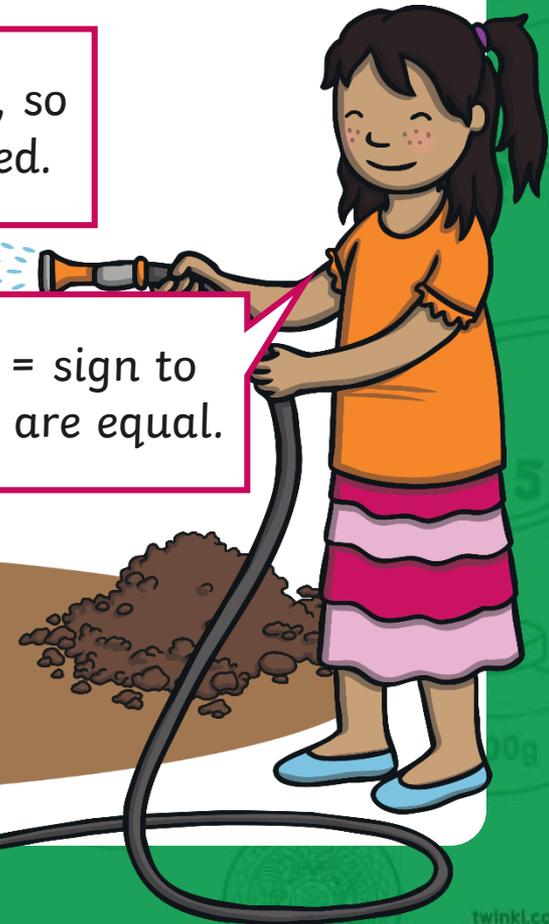
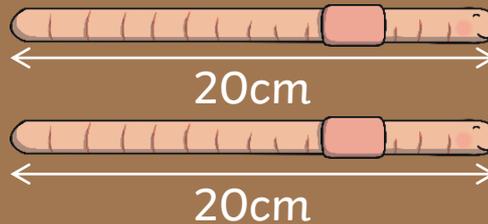


?

What happens if the lengths have the same value?

Neither of the numbers are greater, so the symbols $<$ and $>$ cannot be used.

Instead, we would use the $=$ sign to show that the two numbers are equal.



Compare the Animals



The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.

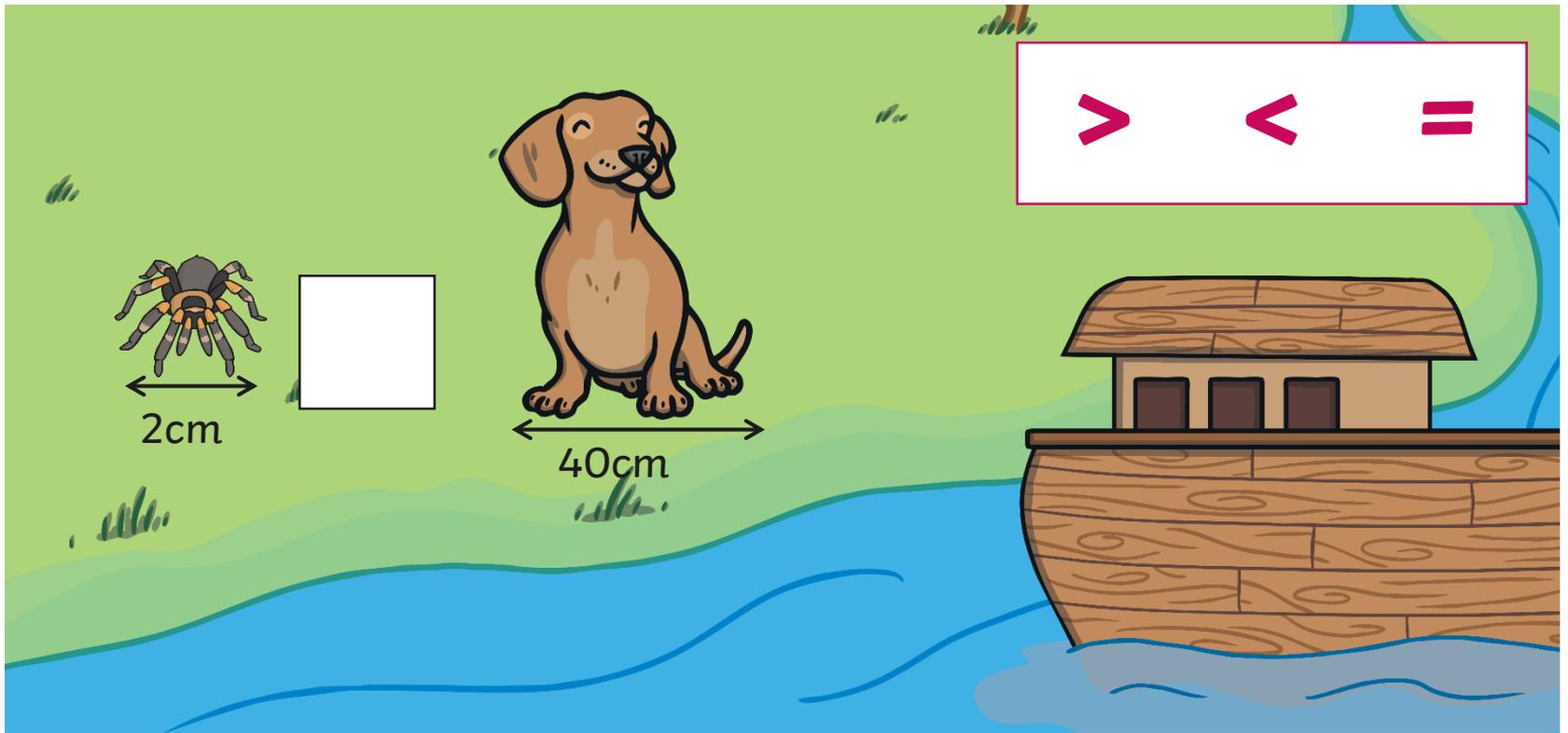
An illustration of a green landscape with a blue river and a wooden ark. On the left, a brown mouse is shown with a double-headed arrow below it labeled "15cm". To the right of the mouse is a white square box. Further right, a yellow and blue snake is shown with a double-headed arrow below it labeled "90cm". In the upper right area of the illustration, there is a white rectangular box with a red border containing three comparison symbols: a greater-than sign (>), a less-than sign (<), and an equals sign (=).

> < =

Compare the Animals



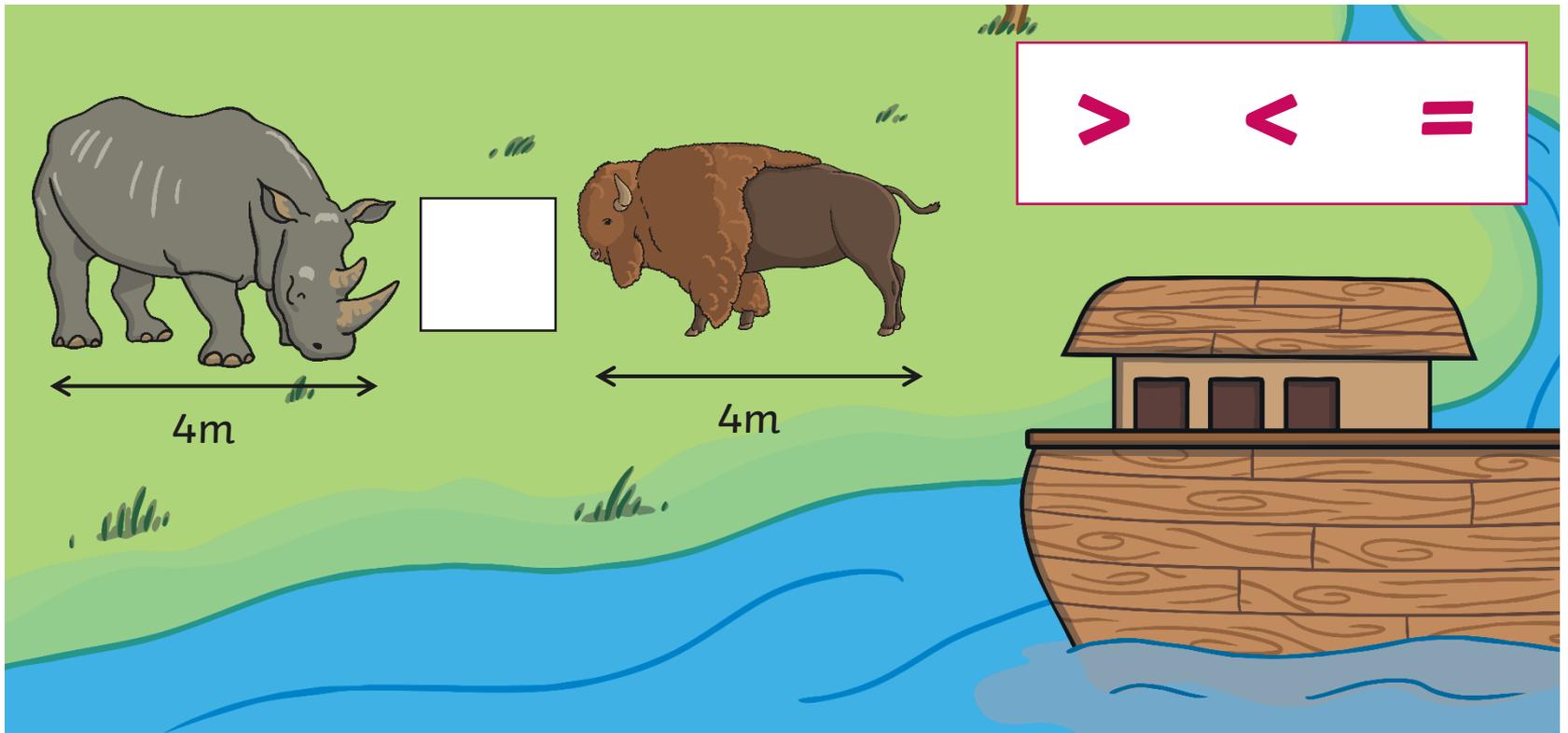
The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



Compare the Animals



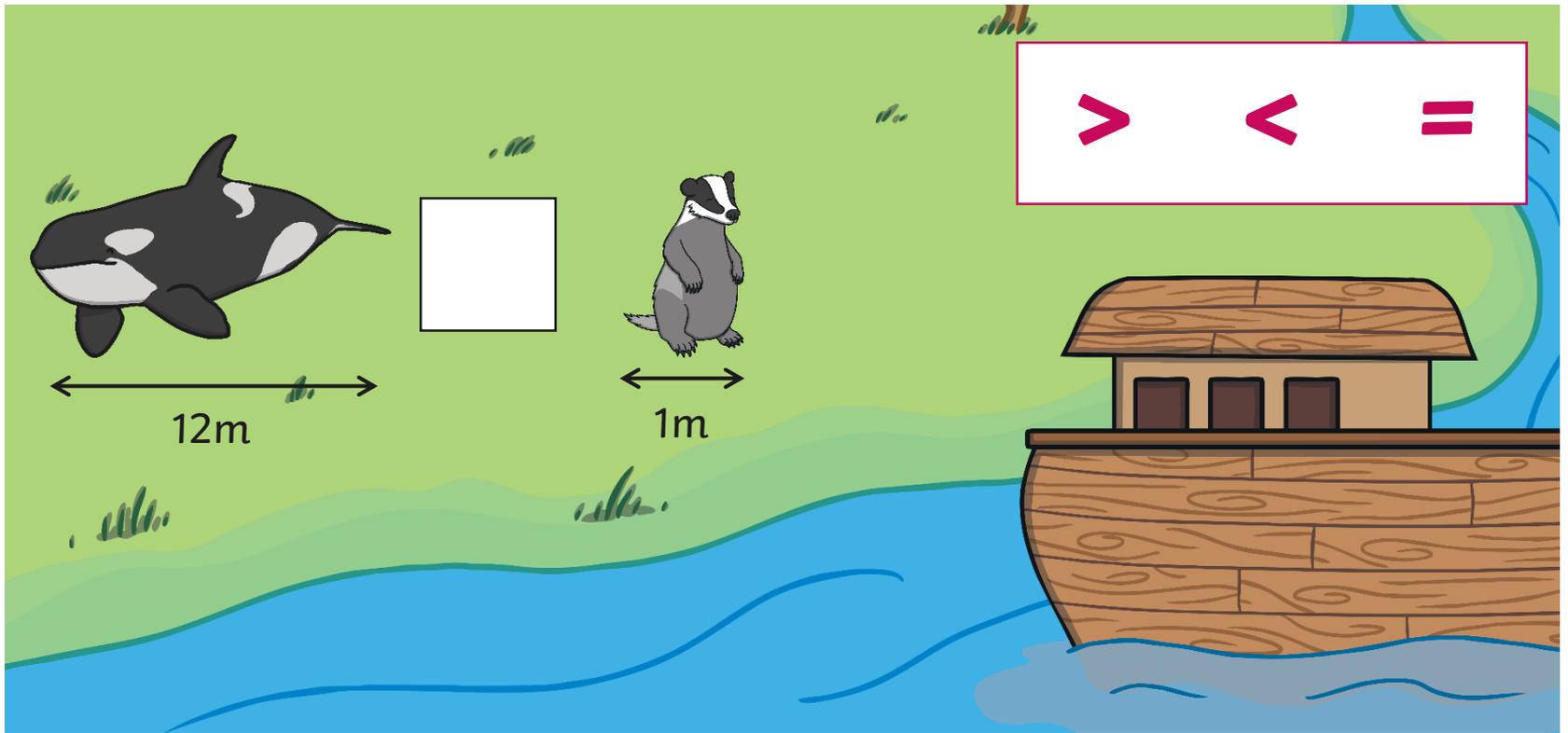
The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



Compare the Animals



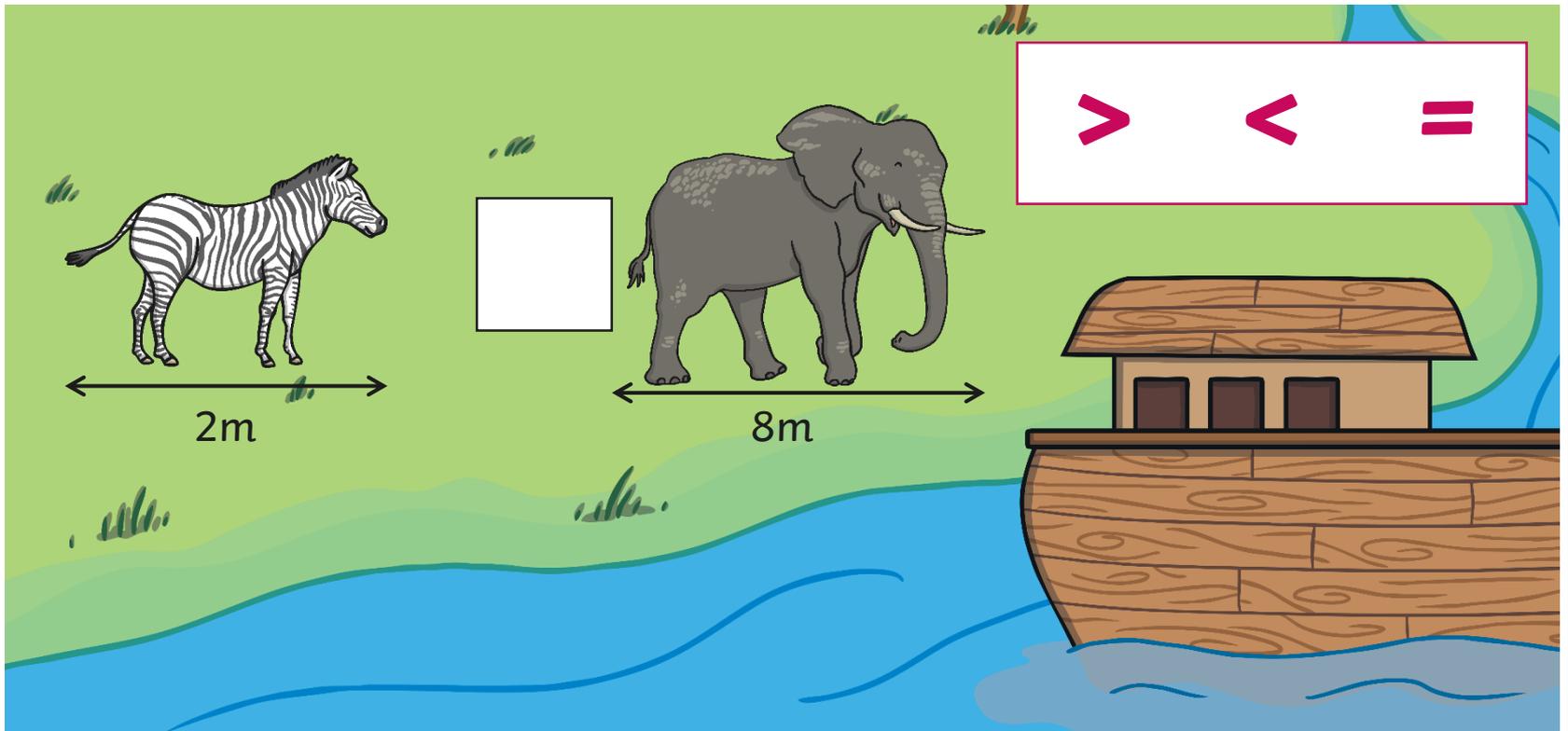
The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



Compare the Animals



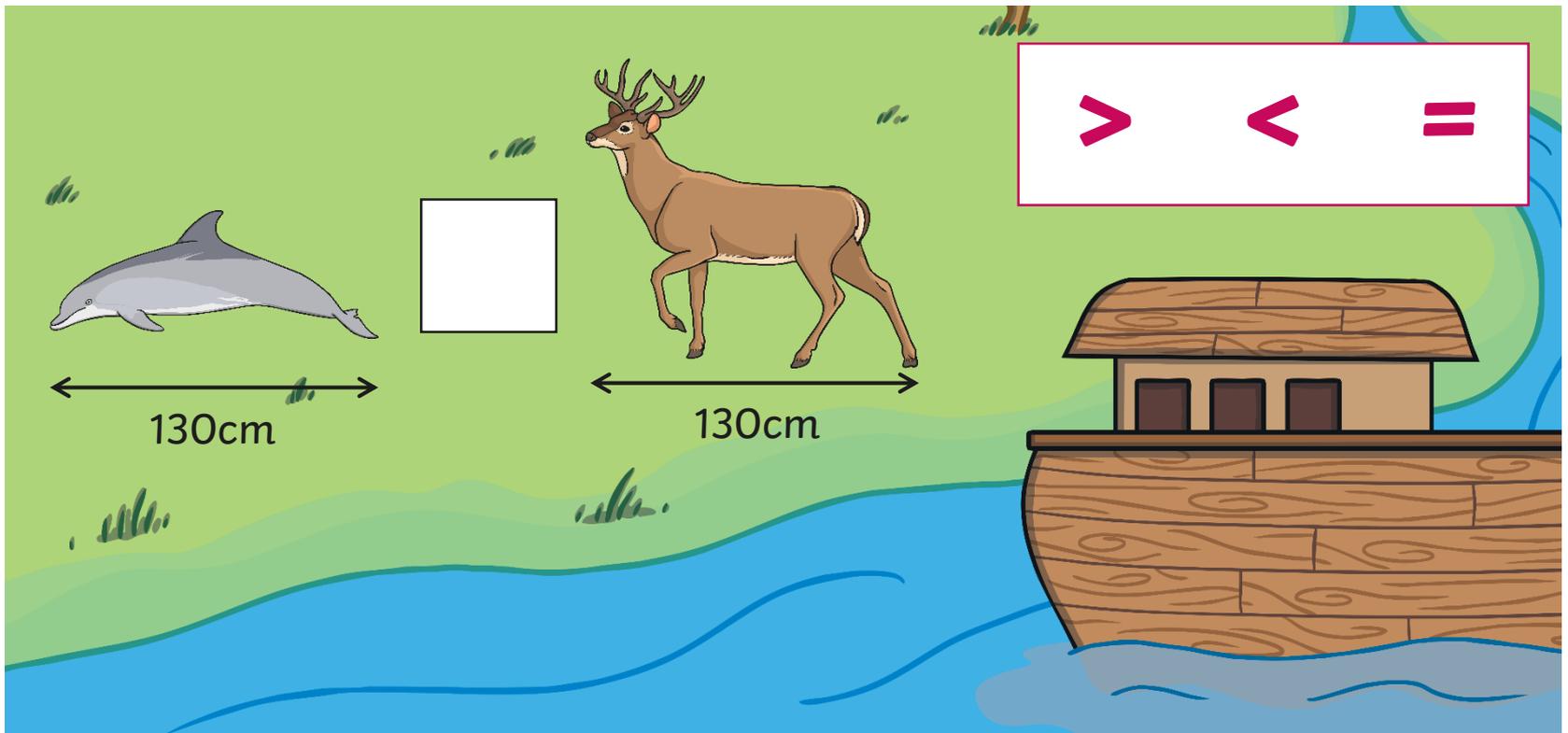
The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



Compare the Animals



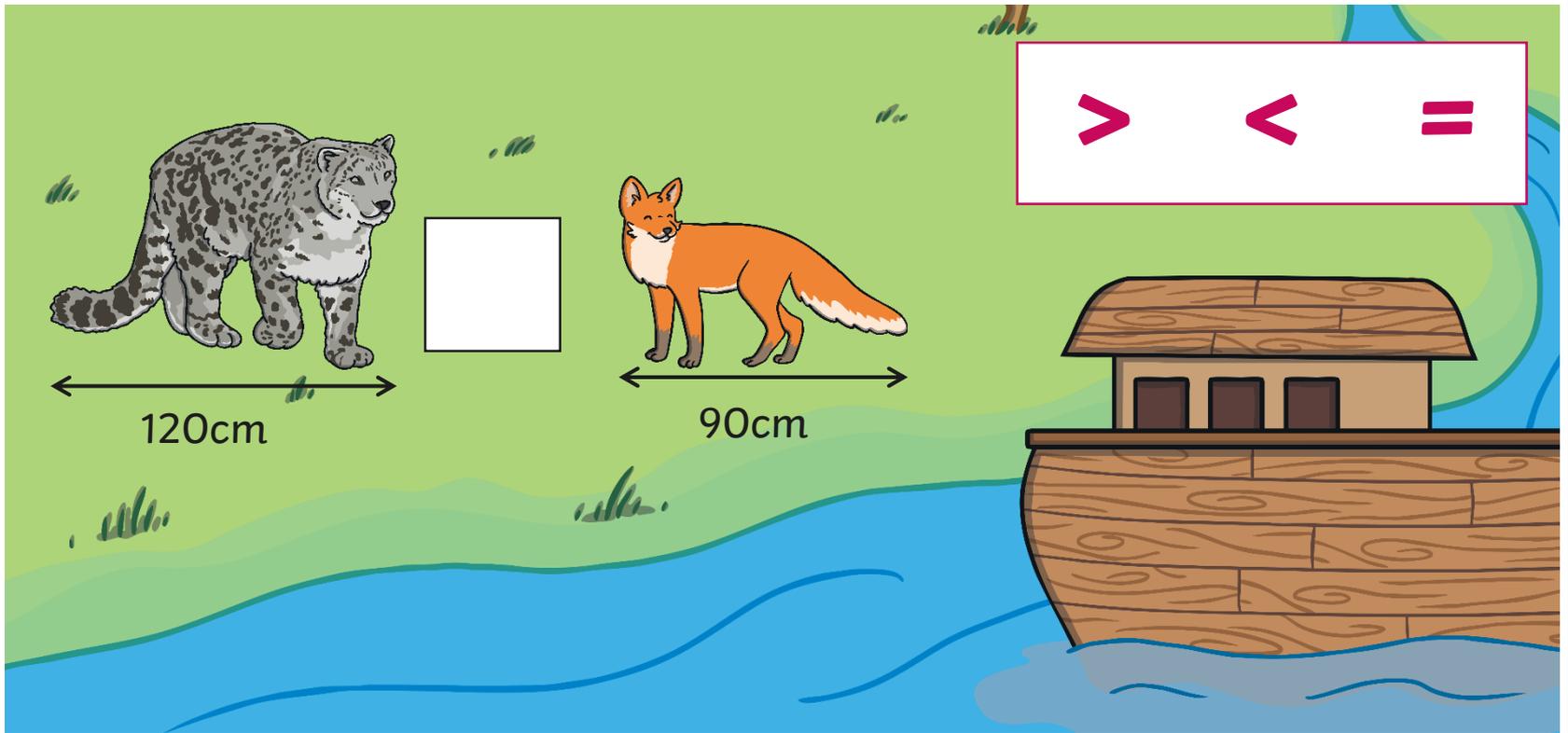
The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



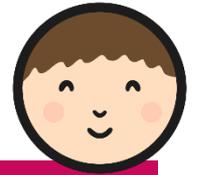
Compare the Animals



The animals are being measured before they get onto the ark. Help Noah to select the correct sign to compare their length.



Noah's Ark



Noah's Ark

I can compare an order lengths.



Noah's Ark

Animals to make the statements correct.

<

>

<

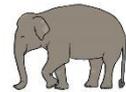
=

ways you could use the <, > and = symbols to length of each model animal?

Noah's Ark

I can compare and order length using >, < and =.

Measure her toy animals to make sure they will all fit into her Noah's Ark. Use a ruler to measure the length of each animal on the **Measuring** worksheet in cm. Record the results below.

 _____ cm	 _____ cm	 _____ cm
 _____ cm	 _____ cm	 _____ cm
 _____ cm	 _____ cm	

Diving into Mastery

Dive in by completing your own activity!



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

Find 2 things shorter than a ruler.

Measure the lengths in centimetres.
Use these signs to compare them.

>

<

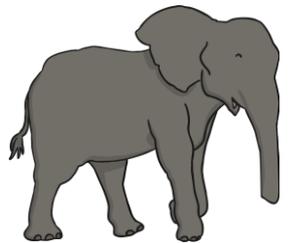
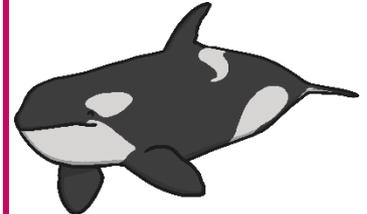
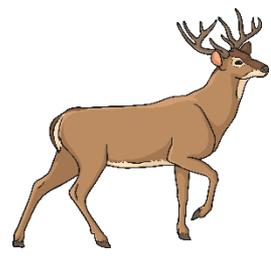
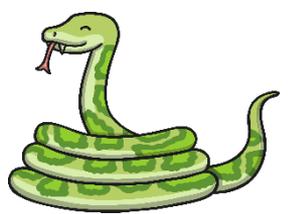
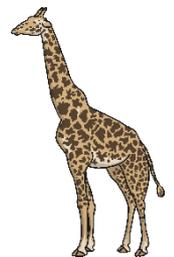
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Sizing Up



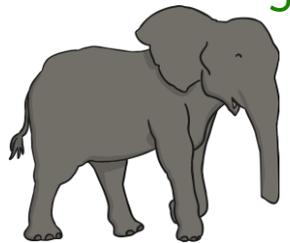
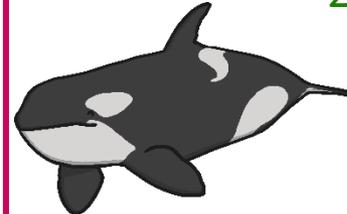
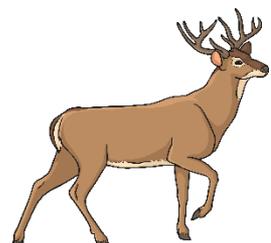
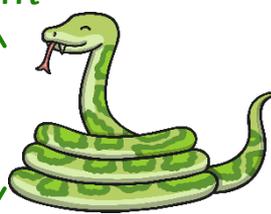
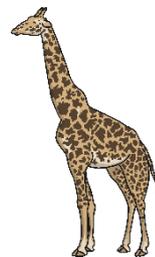
Arrange the animals in order of length.

 2m	 8m	 12m	 1m
 1m	 5m	 3m	 40cm

Sizing Up



Now arrange the animals in order of height.

 2m	 5m	 2m	 62cm
 1m	 2cm	 5m	 70cm

?

Were your arrangements the same? Can you explain why?

Comparing Length



Compare the measurements by using the correct symbol: $<$, $>$ or $=$

$33\text{cm} + 7\text{cm}$

 $<$

$52\text{cm} - 6\text{cm}$

$40\text{m} + 5\text{m}$

 $=$

$55\text{m} - 10\text{m}$

$5\text{cm} + 8\text{cm}$

 $<$

$7\text{cm} + 8\text{cm}$

$80\text{m} - 11\text{m}$

 $>$

$70\text{m} - 2\text{m}$

Comparing Length



Make these comparisons true.

$40\text{m} + 2\text{m}$

<

$37\text{m} + 7\text{m}$

$12\text{cm} - 5\text{cm}$

>

$19\text{cm} - 15\text{cm}$

$65\text{m} - 4\text{m}$

=

$71\text{m} - 10\text{m}$

$26\text{cm} + 18\text{cm}$

=

$52\text{cm} - 8\text{cm}$



There may be more than 1 possible answer.

Aim



- To compare and order lengths using $>$, $<$ and $=$.

Success Criteria

- I can use language, such as 'longer' and 'shorter' to compare lengths.
- I can order objects by length.
- I can use the $>$, $<$ and $=$ signs to compare lengths.

