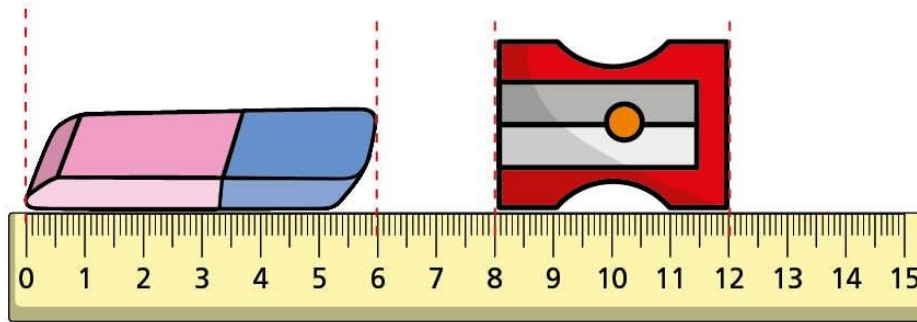


Can I measure length?

Year 3 – Friday 29 January 2021

Compare lengths

1



Which item is longer? The rubber or the pencil sharpener?

It is trickier to see the length of the pencil sharpener. Why?

When you measure things, you need to start from 0, as they have done with the rubber.

Why should you not start measuring from the start of the ruler?

Measure length (m)

I Look around your house

Choose 10 objects.

- Estimate which objects are longer than 1 metre and which are shorter than 1 metre.
- Draw each object in the correct part of the table.



Longer than 1 metre	Shorter than 1 metre

- Use a metre ruler to measure your objects.

Did you put them in the correct column?



- Which object is closest to 1 metre long?

2 Write $<$, $>$ or $=$ to compare the statements.

a) 9 cm 23 cm

b) fifty metres 50 m

c) one metre 1 cm

3 Write digits in the boxes to make the statements correct.

a) cm < 41 cm

c) 14 cm > cm

b) 14 m < m

d) 12 m < m < 20 m

Is there more than one answer for each?



- 4 Would you measure each one using centimetres or metres?

Tick your answer.

	centimetres	metres
a) the height of a baby	<input type="checkbox"/>	<input type="checkbox"/>
b) the length of a pencil	<input type="checkbox"/>	<input type="checkbox"/>
c) the height of a school	<input type="checkbox"/>	<input type="checkbox"/>
d) the height of your teacher	<input type="checkbox"/>	<input type="checkbox"/>

What else would you measure in metres?



5 Write $<$, $>$ or $=$ to compare the statements.

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

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

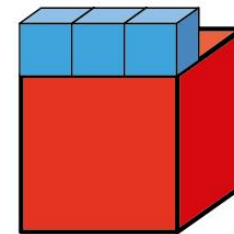
c) $4 \text{ cm} + 13 \text{ cm}$ $20 \text{ m} - 3 \text{ m}$

6

$$5 \text{ m} = 5 \text{ cm}$$

- a) Why is the statement wrong?
Talk about it with a partner.
- b) Write $<$ or $>$ to correct the mistake.

$$5 \text{ m} \bigcirc 5 \text{ cm}$$



- 7** One large cube is three times as long as one small cube.

One small cube is 5 cm long.

a) How long are 2 small cubes?

 cm

b) How long are 10 small cubes?

 cm

c) How long is 1 large cube?

 cm

d) How long are 2 large cubes?

 cm

Lightbulb task – use an ACE answer

Answer Calculate Explain

True or False ?

Measure length (m)

A metre stick is better than a ruler to measure the length of a table.

ANSWER sheets

- Please check your answers using the answer sheets on the next slide.
- If you have made a mistake, can you explain what you did wrong and what you should have done instead?

Answers

1. Answers will vary
2. $<$, $=$, $>$
3. 14 or less, 15 or more, 13 or less, 13-19
4. cm, cm, m, cm
5. $>$, $>$, $=$
6. m stands for meters, cm is centimetres. There are 100 centimetres in one meter, so the statement should be $5\text{m} > 5\text{cm}$.
7. 10, 50, 15, 30

ACE answer lightbulb task

True or False ?

Measure length (m)

Answer

True

Explanation

As a table is a large object, it is easier to measure in metres and it would give a more accurate measurement.

Mrs Smout disagrees with this answer. She says: measuring with a meter stick may be easier, but measuring in cm will be just as accurate.