Skill: I can consolidate everything I have learned about shapes!

W/B 18.5.20 Lesson 1

Rapid Recall

https://www.topmarks.co.uk/maths-games/hit-thebutton

5 times table practise

Big Question

True or False?

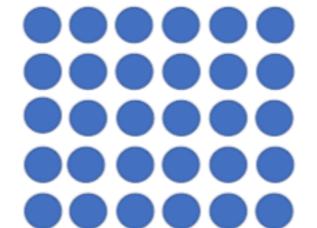
Use arrays

All of the number sentences can be used to find the total of the array.

$$5+5+5+5+5+5$$

$$6+6+6+6+6$$

5 lots of 6



$$3 \times 5 + 3 \times 5$$

$$2 \times 5 + 2 \times 5 + 2 \times 5$$

Big Question

True or False?

Use arrays

True

All of the number sentences are equal to 6×5



circle

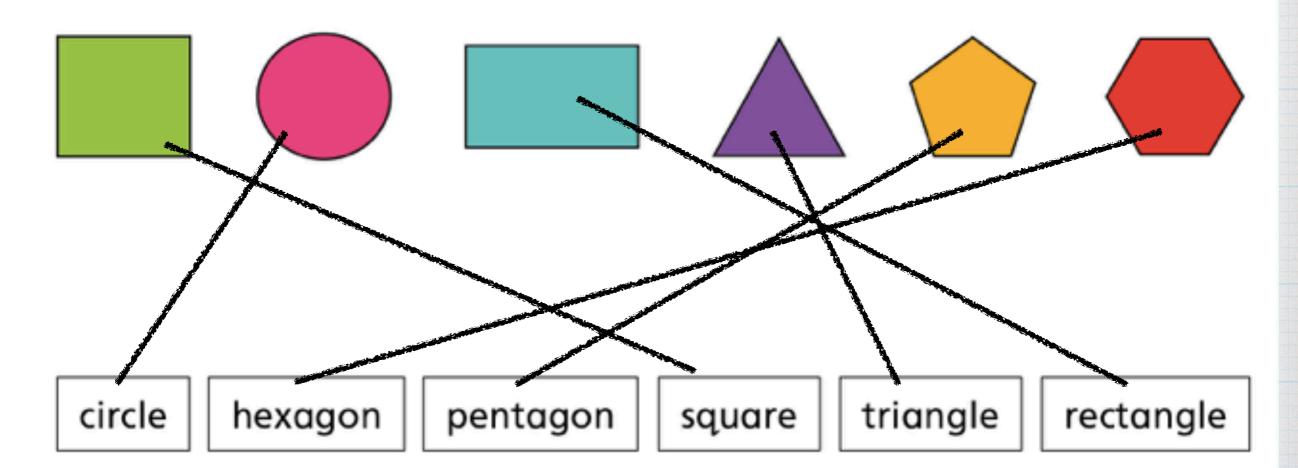
hexagon

pentagon

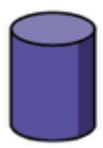
square

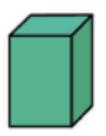
triangle

rectangle















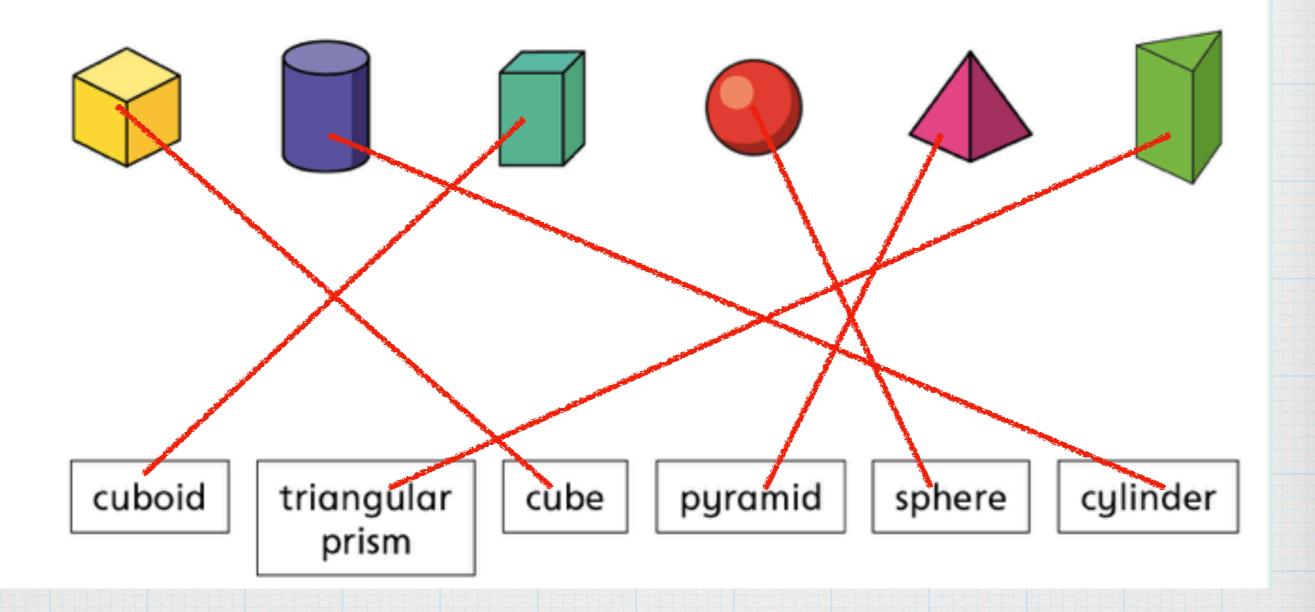
cuboid

triangular prism cube

pyramid

sphere

cylinder

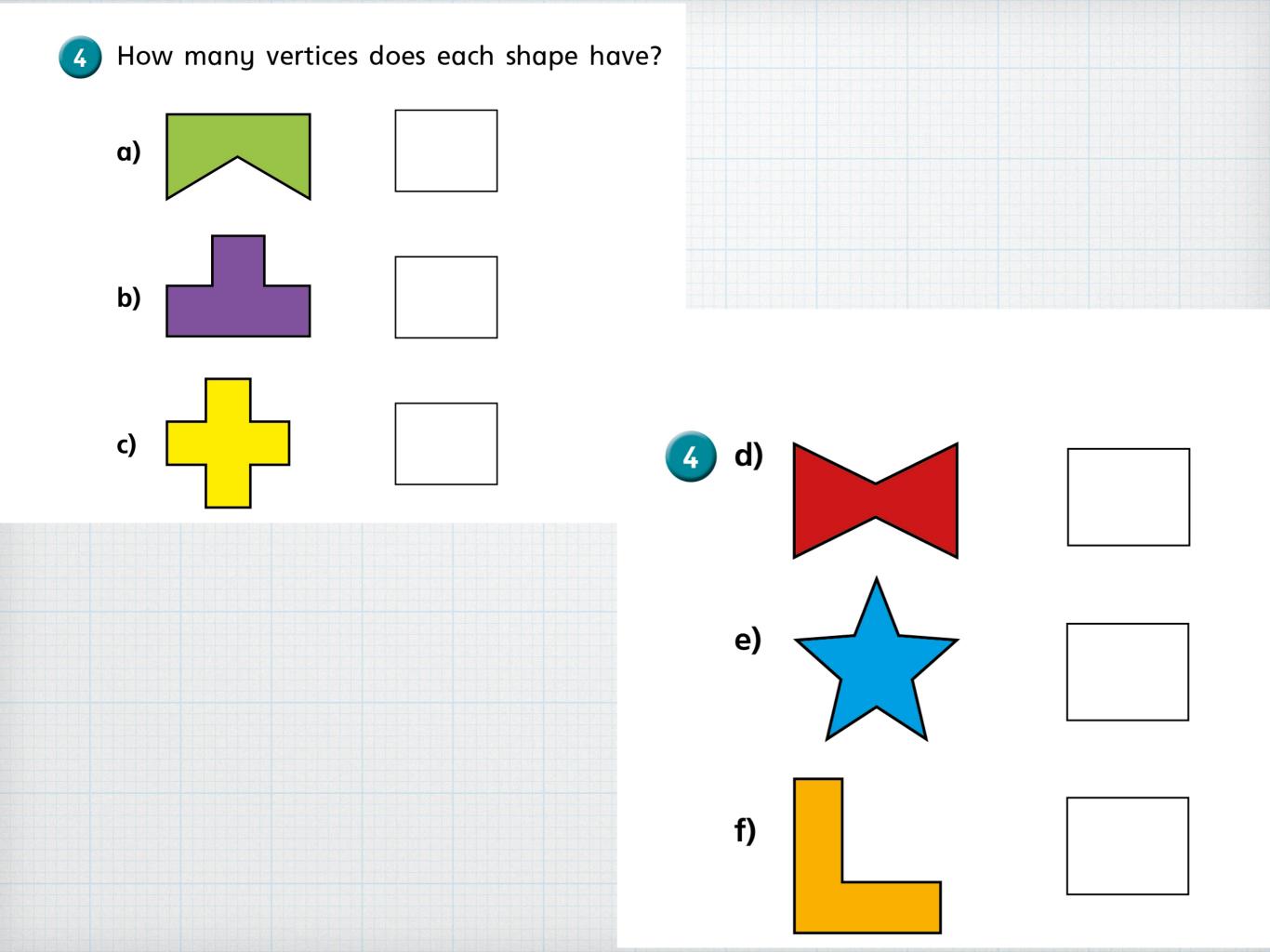


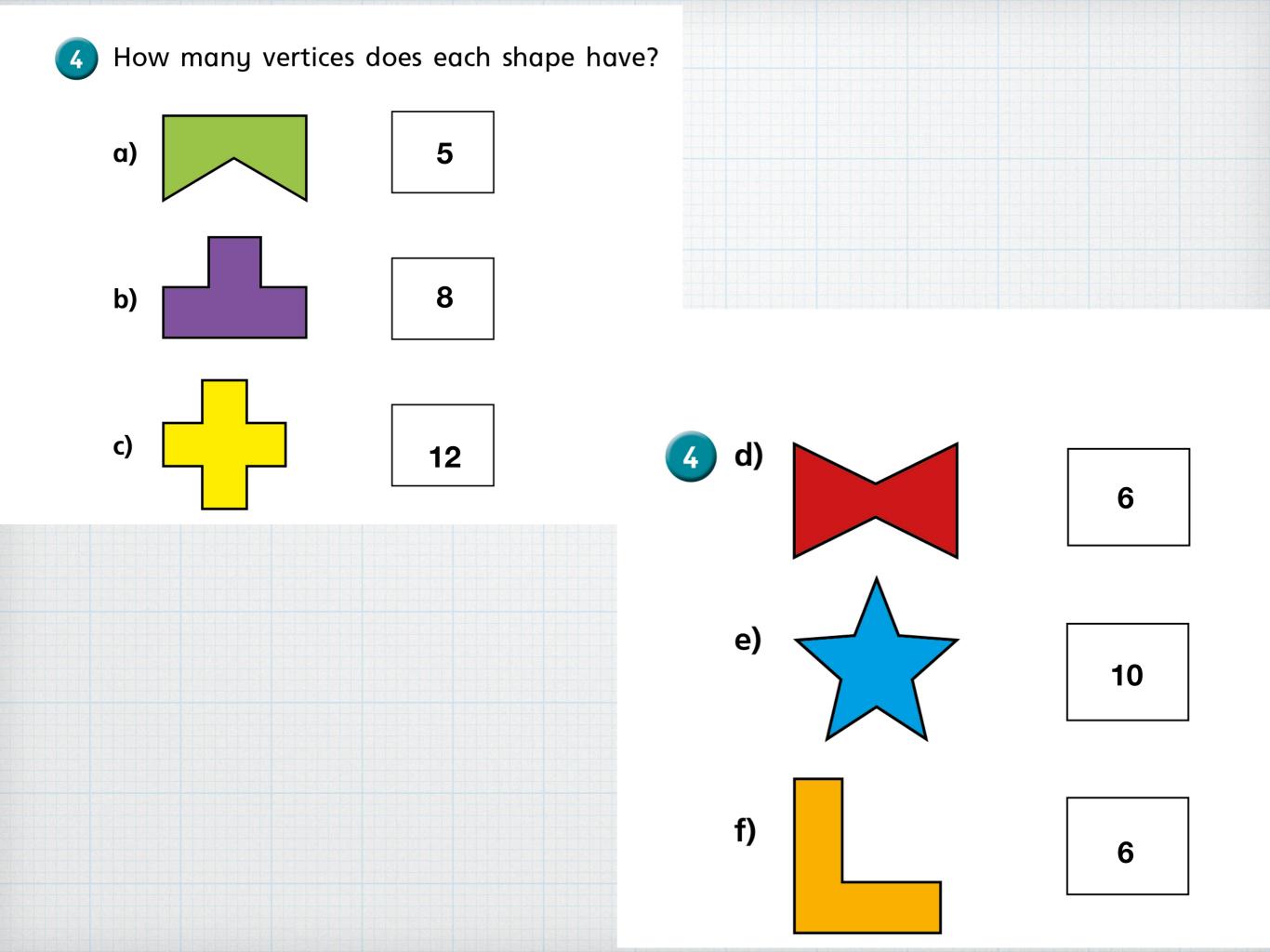
Complete the table.

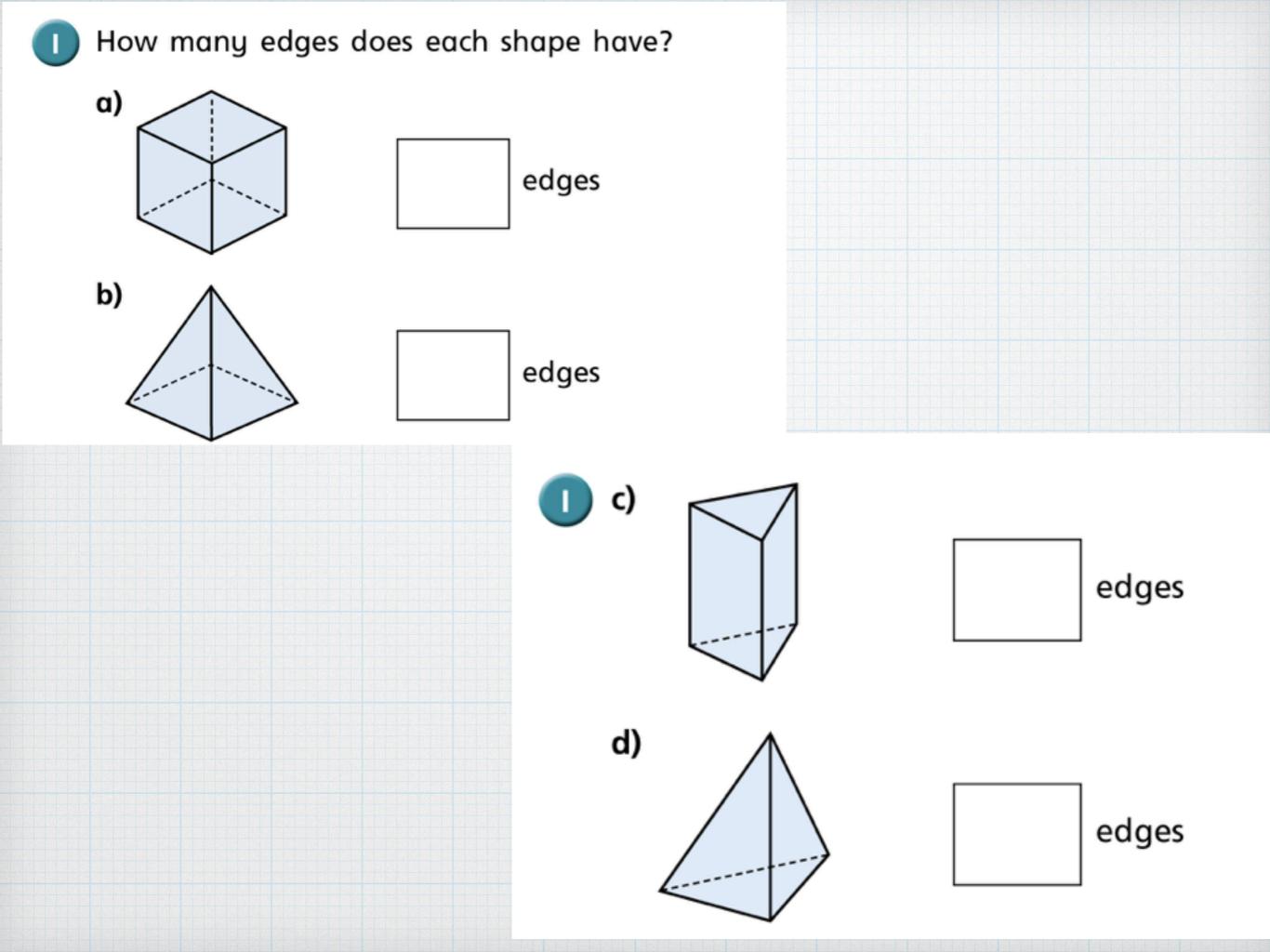
Name	Shape	Number of sides
		3
pentagon		
		6
square		
		8

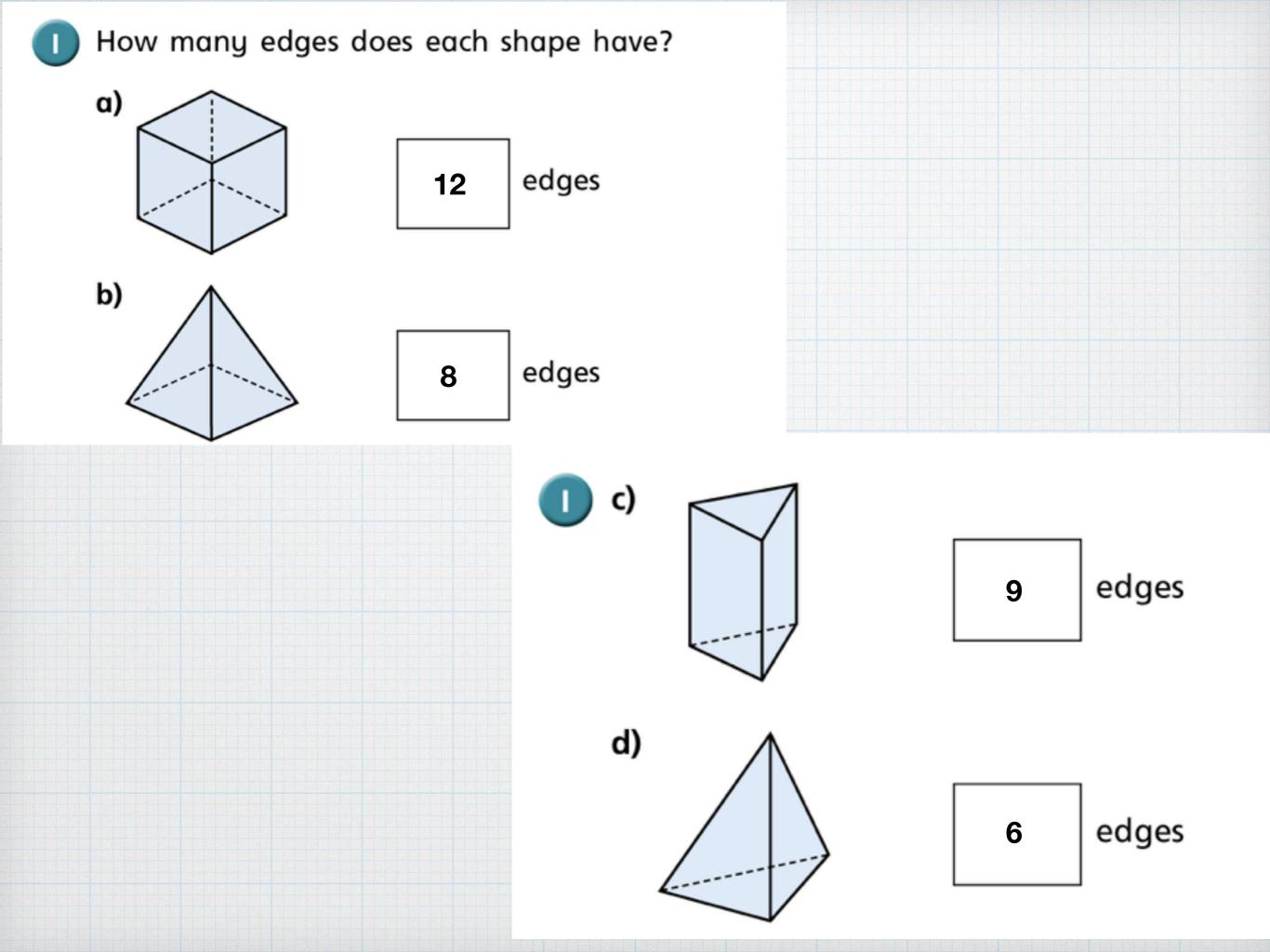
Complete the table.

Name	Shape	Number of sides
Rectangle		4
Triangle		3
pentagon		5
Hexagon		6
square		4
Octagon		8

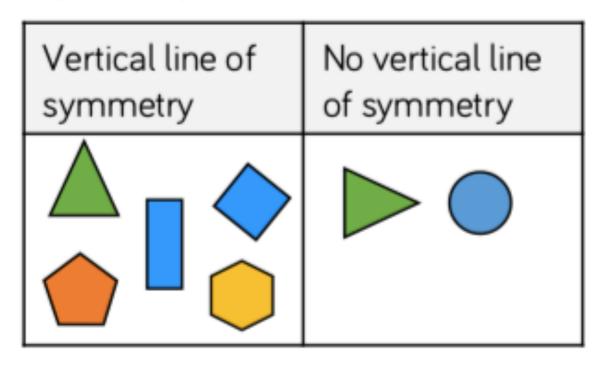




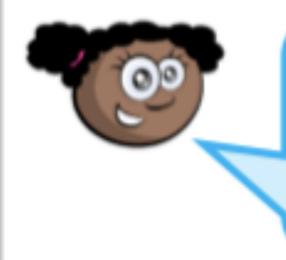




Which shape is in the wrong set? Explain why.

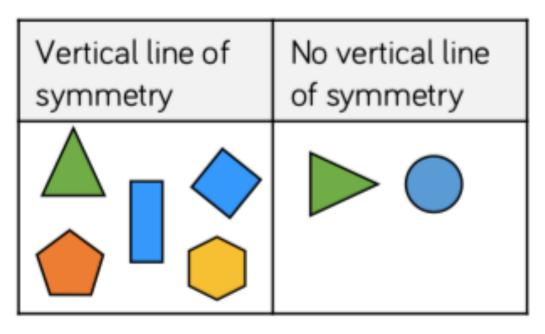






I have a 3-D shape with 2 square faces and 4 rectangular faces.

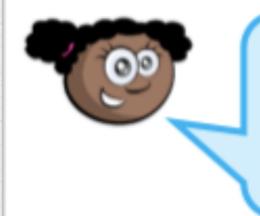
Which shape is in the wrong set? Explain why.



The circle is in the wrong set because it does have a vertical line of symmetry.

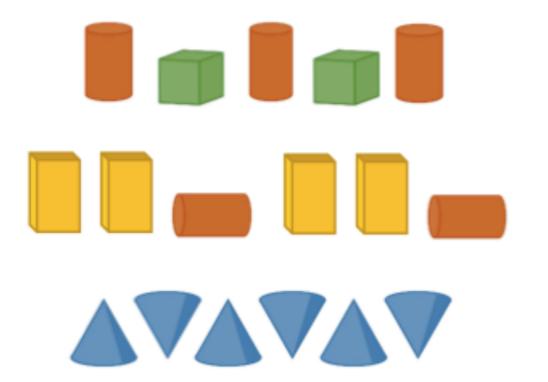
Whitney has a cuboid.

Whitney says,

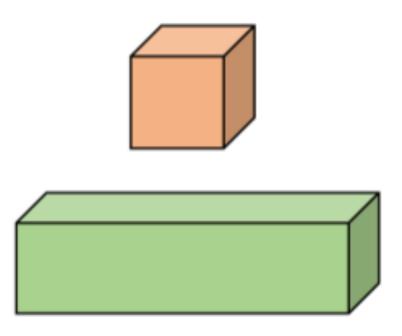


I have a 3-D shape with 2 square faces and 4 rectangular faces.

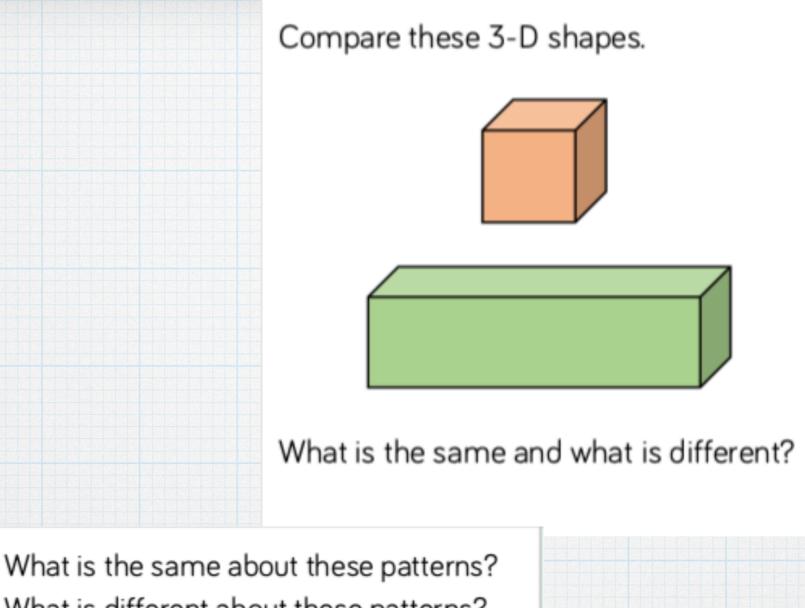
What is the same about these patterns?
What is different about these patterns?



Compare these 3-D shapes.



What is the same and what is different?



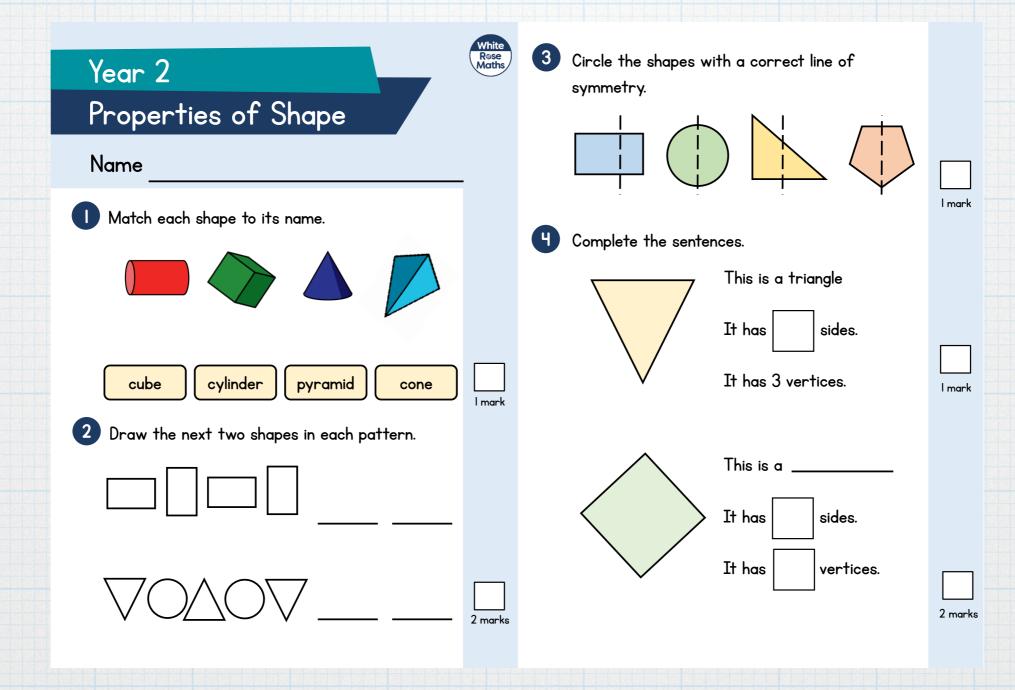
Same – both have square faces, 6 faces, 12 edges, don't roll, can stack, no curved edges.

Different – name, colour, size, one only has square faces the other has squares and rectangles....

The first and second patterns use two shapes.
Colour is a difference to note.
In the 3rd pattern, one shape is used in different orientations. In the 2nd pattern, the shape is used twice each time.

What is different about these patterns?

Activity



Have a go at the shape assessment to see how much you have learned!

End of Lesson 1

Skill: I can measure length in centimetres (cm)!

W/B 18.5.20 Lesson 2

Rapid Recall

There are some socks on a washing line.

The socks are spotty, stripy or plain.



Complete the tally chart.

Sock	Tally
spotty	
stripy	
plain	

Big Question

Here are shadows of some 3D shapes.

What could they be?



Big Question

Here are shadows of some 3D shapes.

What could they be?



Some possible answers:

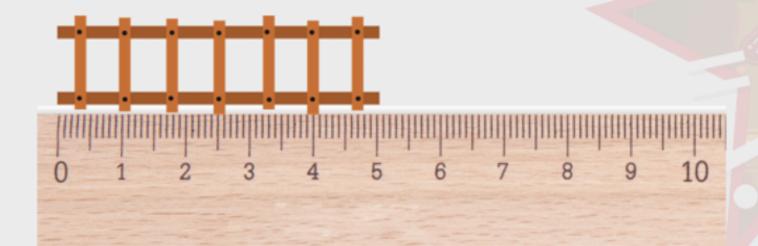
Sphere/ Cylinder/ Cone
Cube/ Square based pyramid
Triangular prism
Cuboid

How long are these objects in centimetres?



Α.

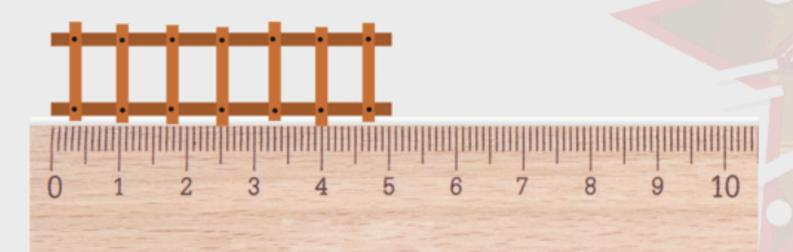
В.



How long are these objects in centimetres?



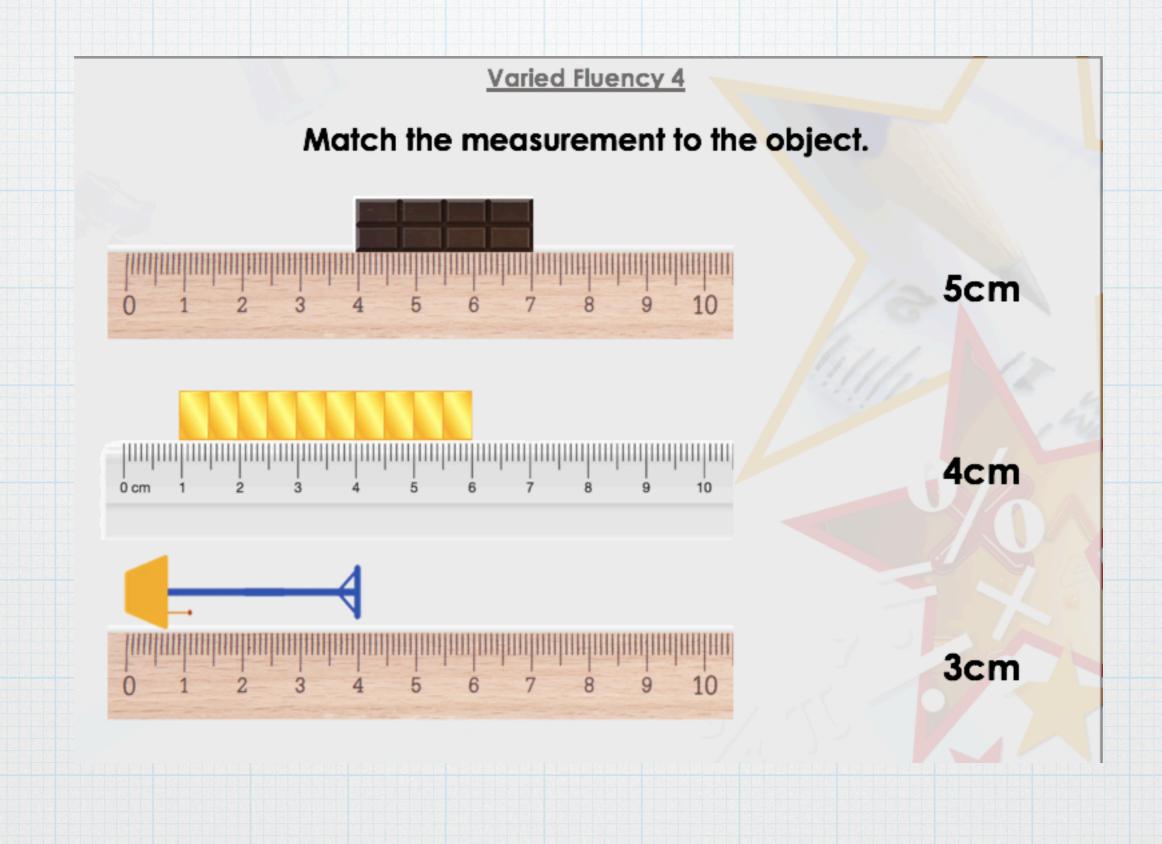
Α.

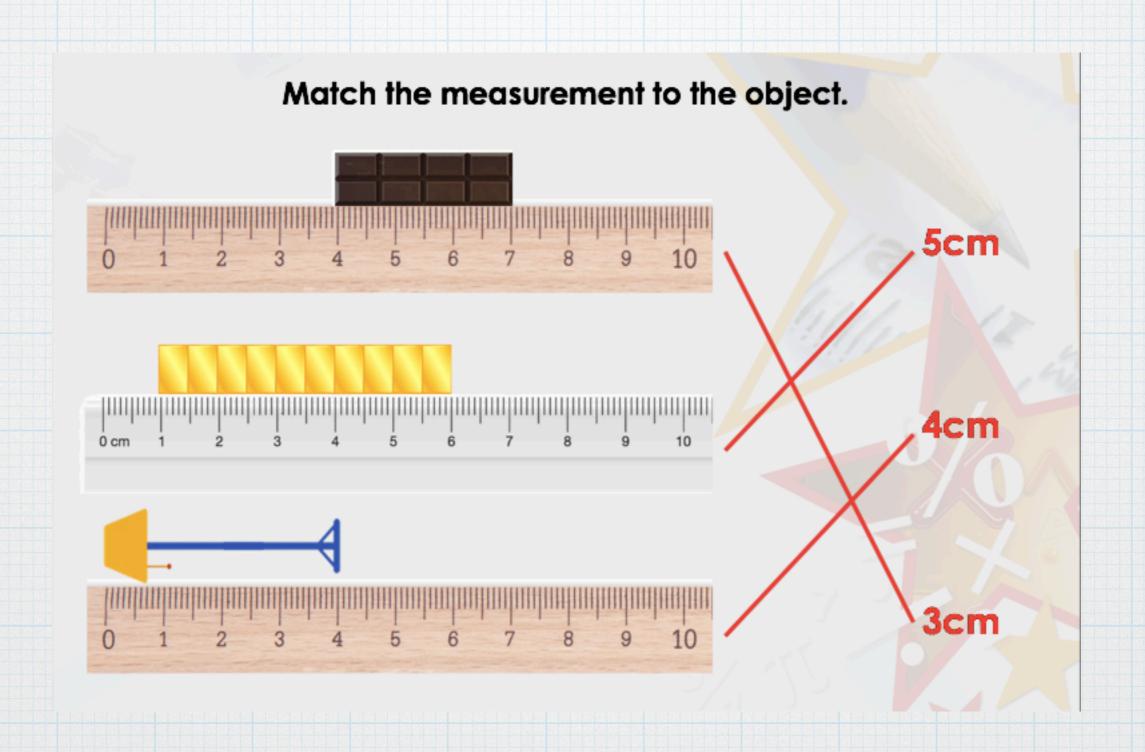


В.

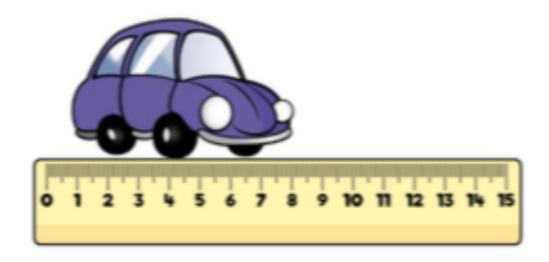
5cm

Use a ruler to draw the lines. a) 12 cm long b) 7 cm long c) 8 cm long





Mo has used the ruler to measure the length of the car.



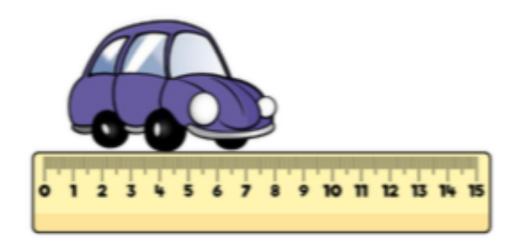
Mo says the car is 8 centimetres long. Do you agree? Explain your answer.

6a. Abdul's toy bottle measures between 10cm and 15cm.

What are the possible measurements his bottle of drink could be?



Mo has used the ruler to measure the length of the car.



Mo says the car is 8 centimetres long. Do you agree? Explain your answer.

Mo is incorrect because he has not lined the car up with the 0 marker. If he had measured from 0 he would see that the car is 7 cm long.

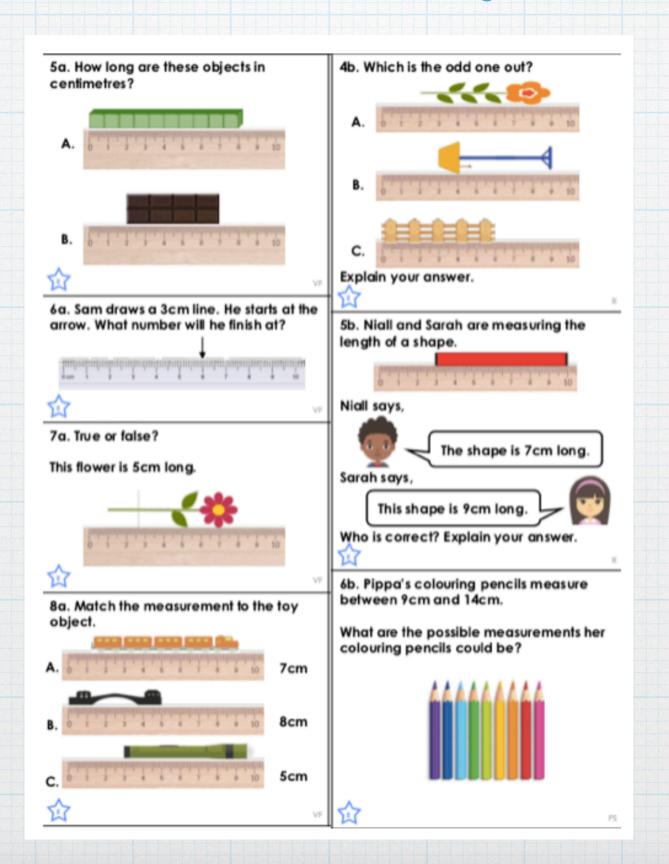
6a. Abdul's toy bottle measures between 10cm and 15cm.

What are the possible measurements his bottle of drink could be?

6a. Various possible answers, for example: 11cm, 12cm, 13cm and 14cm.



Activity



End of Lesson 2

Skill: I can measure length in metres (m)!

W/B 18.5.20 Lesson 3

Rapid Recall

Ron has this money in his hand.

He has 29p in his pocket.

How much money does Ron have altogether?



Rapid Recall

Ron has this money in his hand.

He has 29p in his pocket.

How much money does Ron have altogether?

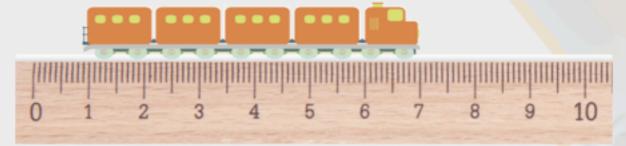


Answer:

Ron has 46p in his hand 46p + 29p = 75p

Big Question

James and Laura are measuring the length of a train.



James says,



The train is 5cm long.

Laura says,

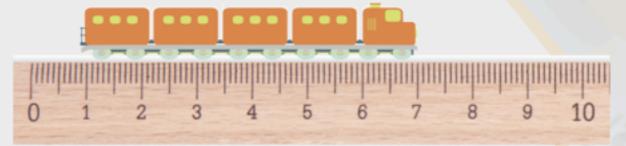
The train is 6cm long.



Who is correct? Explain your answer.

Big Question

James and Laura are measuring the length of a train.



James says,



The train is 5cm long.

Laura says,

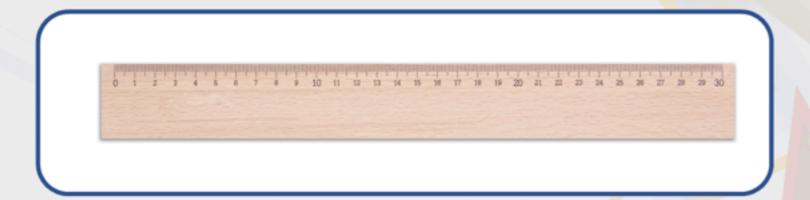
The train is 6cm long.



Who is correct? Explain your answer.

Laura is correct because she has taken into account that the object is measured from 1cm and not 0cm.

Would you use a centimetre ruler to measure your classroom?



Can you think of a bigger unit of measurement for length that would be better?

How many centimetres (cm) are there in 1 metre (m)?

Would you use a centimetre ruler to measure your classroom? No, this unit of measurement is too small to measure a room.



Can you think of a bigger unit of measurement for length that would be better?

metres - m

How many centimetres (cm) are there in 1 metre (m)?

100cm = 1m

Match the object to the estimated length.

play house

coach

suitcase





not to scale

11m

67cm

2m 51cm

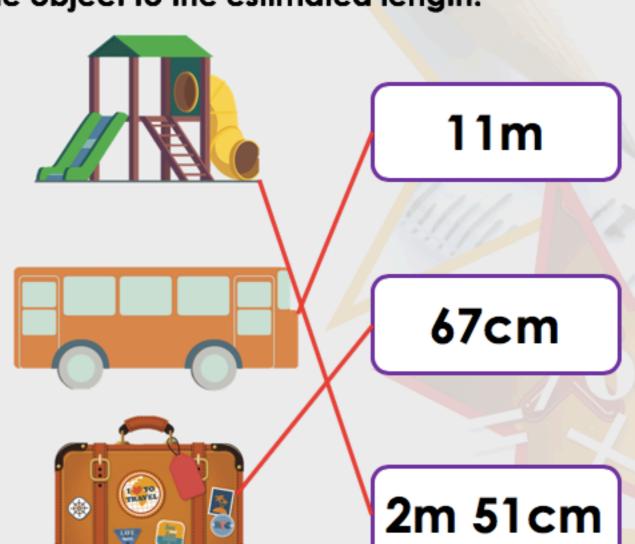


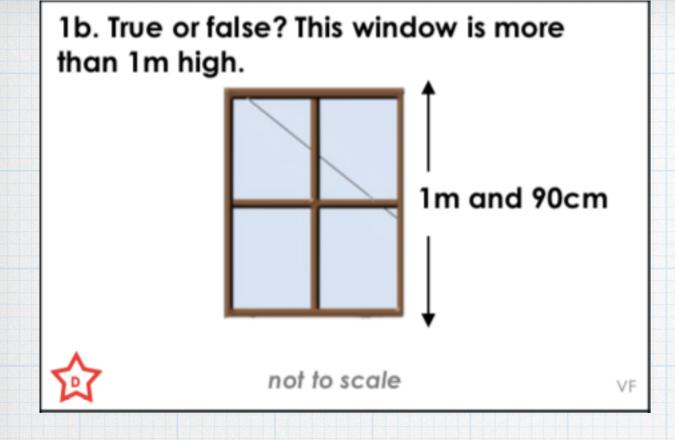
not to scale

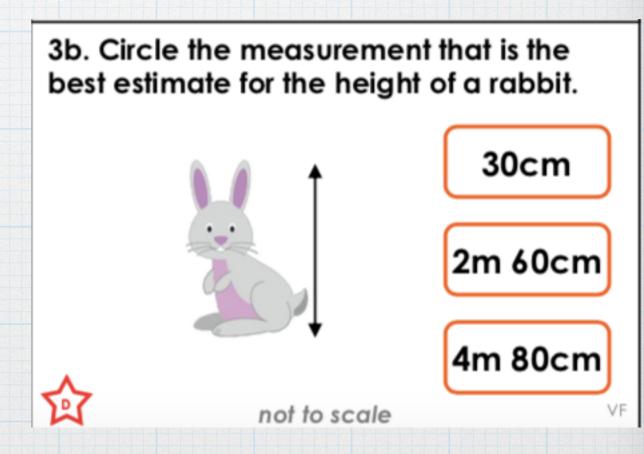
play house

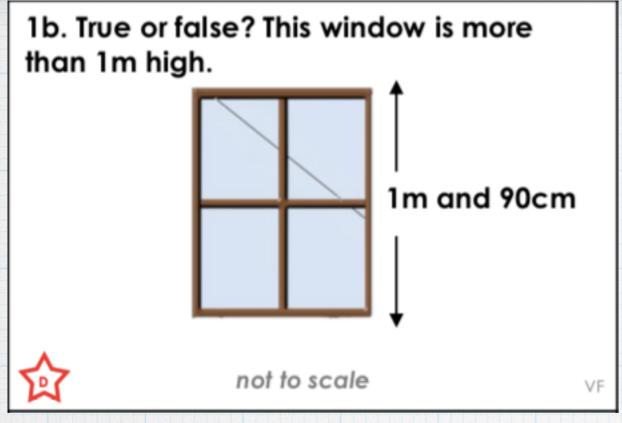
coach

suitcase



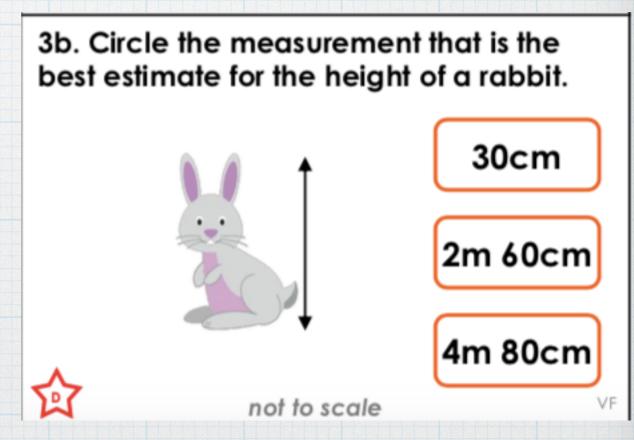






True

30cm



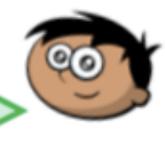
Circle the objects that you would measure in metres. Tick the objects that you would measure in centimetres.



Amir has a metre stick.

He wants to measure the length of his classroom.

I can't measure the length of the classroom because my metre stick isn't long enough.



Explain to Amir how he could measure the length of his classroom.

Circle the objects that you would measure in metres. Tick the objects that you would measure in centimetres.



Circle: Elephant, School and Tree.

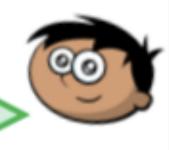
Tick: Pencil, Apple, Tag and Teacup.

Amir can measure the length of the classroom by putting a marker at the end of the metre stick and then starting again at that point, moving his metre stick as he measures.

Amir has a metre stick.

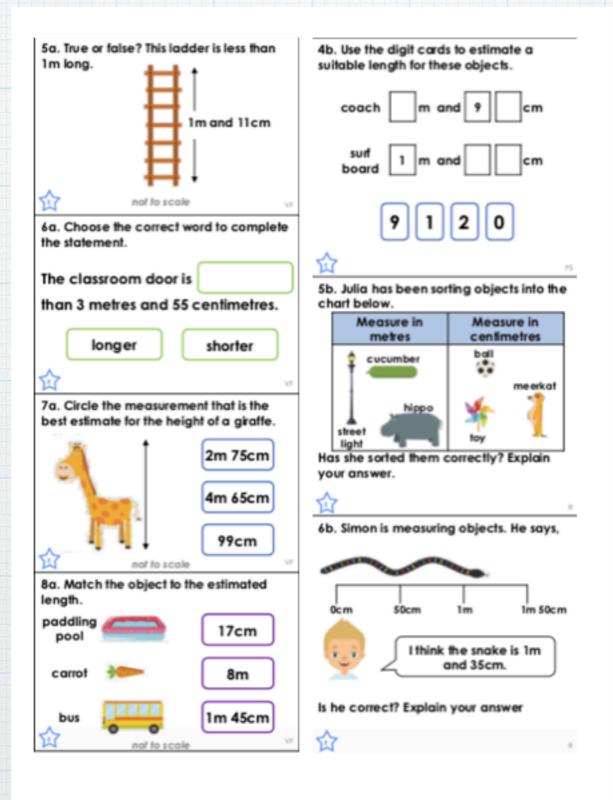
He wants to measure the length of his classroom.

I can't measure the length of the classroom because my metre stick isn't long enough.



Explain to Amir how he could measure the length of his classroom.

Activity



End of Lesson 3

Skill: I can compare lengths!

W/B 18.5.20 Lesson 4

Rapid Recall

2 minutes to write down as many number bonds to 70 as possible.

Big Question

5



Daddy Bear is 2 metres tall.

Baby Bear is half as tall as Daddy Bear.

- a) How tall is Baby Bear?
- b) Mummy Bear is taller than Baby Bear, but shorter than Daddy Bear.

How tall could Mummy Bear be?

Big Question

5



Daddy Bear is 2 metres tall.

Baby Bear is half as tall as Daddy Bear.

- a) How tall is Baby Bear?
- b) Mummy Bear is taller than Baby Bear, but shorter than Daddy Bear. How tall could Mummy Bear be?

Daddy Bear is 2 metres tall.

Baby Bear is half as tall as Daddy Bear.

a) How tall is Baby Bear?



- b) Mummy Bear is taller than Baby Bear, but shorter than Daddy Bear. How tall could Mummy Bear be?
- e.g. Mummy Bear could be



42cm

tall.

Arrange the measurements from shortest to longest.

7 centimetres

20cm

9 centimetres

Arrange the measurements from shortest to longest.

7 centimetres

20cm

9 centimetres

7 centimetres

9 centimetres

20cm

7b. Which statements are false?

A. 12m < 12cm

B. 36 cm < 56cm

C. five metres = 5cm



VF

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

VF

7b. Which statements are false?

A. 12m < 12cm

B. 36 cm < 56cm

C. five metres = 5cm

7m is longer than 7cm.

15cm is shorter than 15m.

1m is the same as 100cm.



VE

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

7m is_____7cm

A and C are false.

15cm is 15m

1m is 100cm

longer than

shorter than



the same as

VF

Compare the measurements using <, >or =55 cm + 10 cm 55 cm - 10 cm42 m + 6 m $42 \, \text{m} + 7 \, \text{m}$ 6 cm - 5 cm $6 \, \text{m} - 5 \, \text{m}$ 80 m – 5 m $70 \, \text{m} + 5 \, \text{m}$

A green pencil is twice as long as a blue pencil.



Using this, complete the statements using longer than, shorter than or equal to.

3 green pencils are _____ 2 blue pencils

2 green pencils are _____ 5 blue pencils

4 green pencils are _____ 8 blue pencils

Compare the measurements using <, >or =

$$42m + 6m (<) 42m + 7m$$

$$6 \text{ cm} - 5 \text{ cm}$$
 (<) $6 \text{ m} - 5 \text{ m}$

$$80 \text{ m} - 5 \text{ m}$$
 = $70 \text{ m} + 5 \text{ m}$

A green pencil is twice as long as a blue pencil.



3 green pencils are longer than 2 blue pencils.

2 green pencils are shorter than 5 blue pencils.

4 green pencils are equal to 8 blue pencils.

Using this, complete the statements using longer than, shorter than or equal to.

3 green pencils are _____ 2 blue pencils

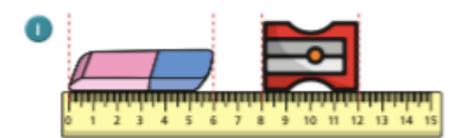
2 green pencils are _____ 5 blue pencils

4 green pencils are _____ 8 blue pencils

Activity

Compare lengths





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.
- 23 cm
- fifty metres
- one metre

Write digits in the boxes to make the statements correct.

a)	cm	<	41	cn

- b) 14 m <</p> m
- c) 14 cm > cm
- d) 12 m <</p> m < 20 m

Is there more than one answer for each?

Would you measure each one using centimetres or metres?

Tick your answer.

centimetres metres

a) the height of a baby

b) the length of a pencil



c) the height of a school

_			_
_			
- 1			
- 1			
_			_

d) the height of your teacher



What else would you measure in metres?



End of Lesson 4

Apply everything you have learned this week!

You will find 3 different challenges below and lots more if you follow this link: https://nrich.maths.org/13843

Little Man - https://nrich.maths.org/4789

How Tall? - https://nrich.maths.org/7536

Sizing Them Up-https://nrich.maths.org/4962