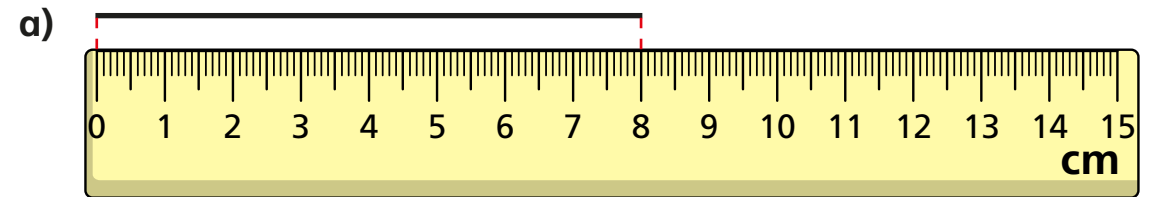
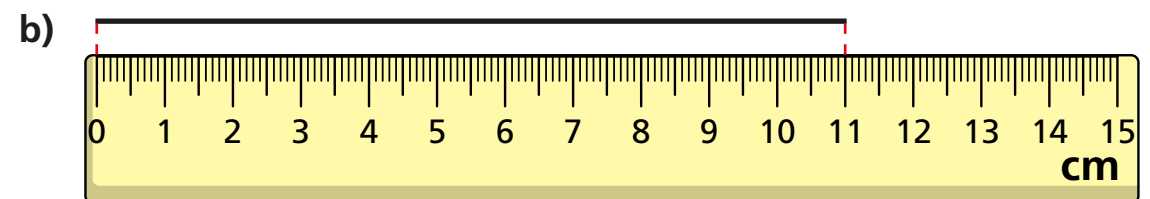


Draw accurately

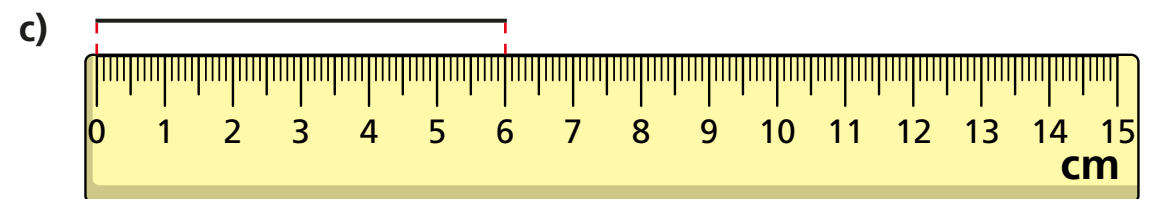
1 How long is each line?



8 cm



11 cm

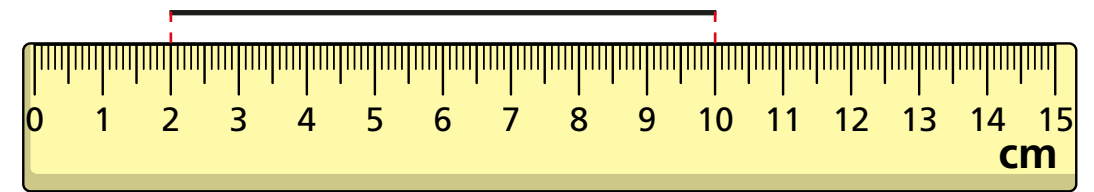


6 cm

2 Draw two lines that are each 5 cm long.



3 Dani says the line is 10 cm long.



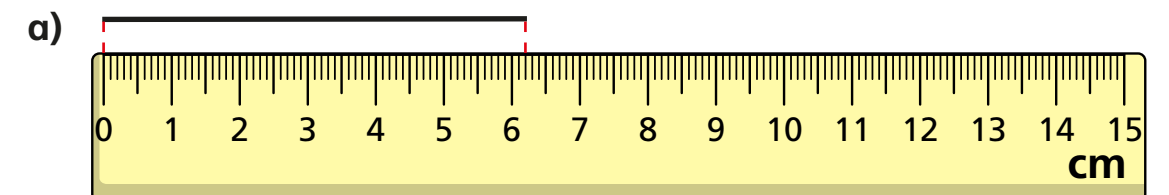
a) What mistake has Dani made?

She hasn't started measuring from 0

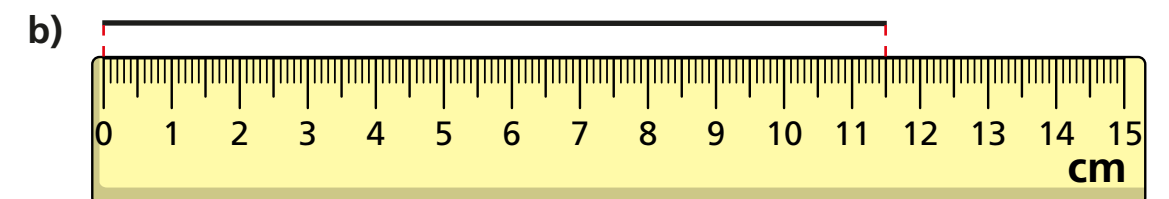
b) How long is the line?

8 cm

4 What is the length of each line in millimetres?



62 mm



115 mm

c) _____

mm



5 Use a ruler to draw the lines.

a) Draw a line 8 cm long.

b) Draw a line 80 mm long.

What do you notice about the lines you have drawn?

Why is this?

6 Use a ruler to help you answer the questions.

a) Draw a 4 cm by 4 cm square.

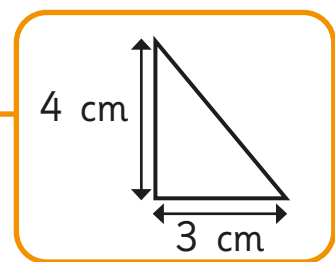


b) Measure the length of the diagonal.

Give your answer in millimetres.

7 Draw a rectangle 8 cm long and 32 mm wide.

8 a) Make a sketch of the triangle.











b) Use your drawing to work out the perimeter of the triangle.



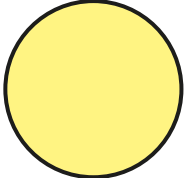
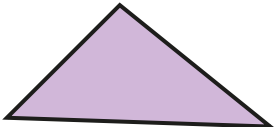
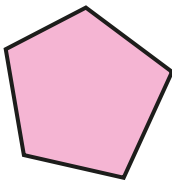
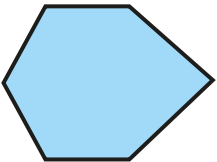
Recognise and describe 2D shapes

1 Match the shapes to the labels.

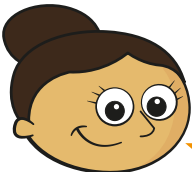
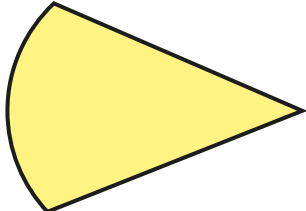
		square
		pentagon
		triangle
		hexagon

2 Use the words to label the shapes.

rectangle hexagon circle triangle pentagon

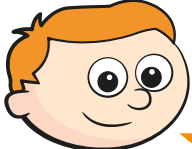
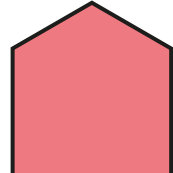
a)  <u>circle</u>	c)  <u>triangle</u>
b)  <u>pentagon</u>	d)  <u>hexagon</u>

3 Dora and Ron each have a shape.

a)  My shape has three sides, so it is a triangle. 

Why is Dora incorrect?

A triangle has three straight sides. This shape has two straight sides and one curved.

b)  My shape is a house. 


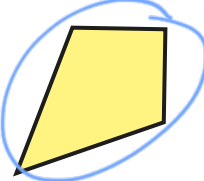


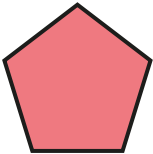
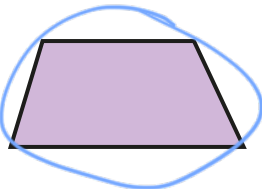
Why might Ron think that? Talk to a partner.

What is the mathematical name for Ron's shape?

pentagon

4 Here are some shapes.

a) Circle all the quadrilaterals.

b) Draw three more quadrilaterals.



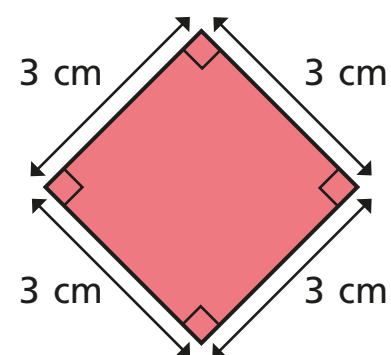
What do you notice about all the shapes you have drawn?

c) Is this shape a square?

Circle your answer.

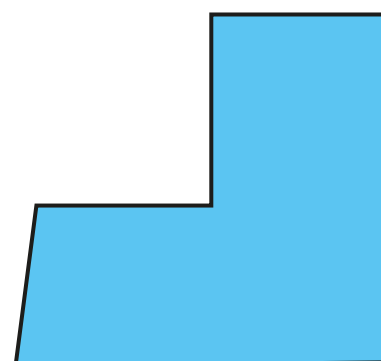
yes

no



Compare answers with a partner.

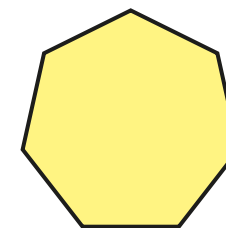
5 This shape is a hexagon.



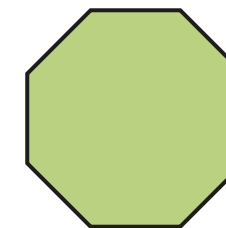
Why is it a hexagon?

It has 6 sides.

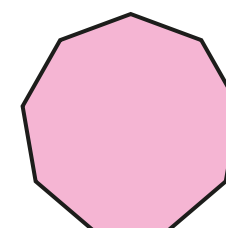
6 What is the name of each shape?



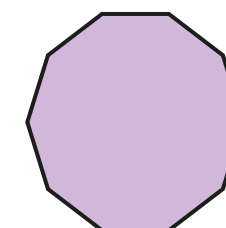
heptagon



octagon



nonagon

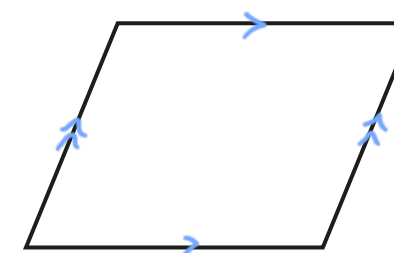
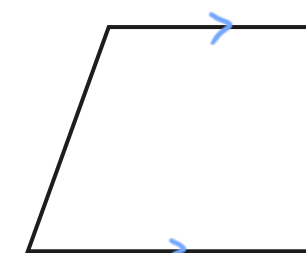
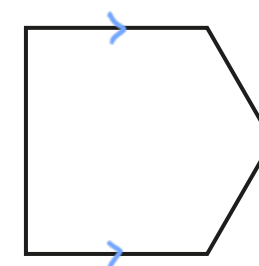


decagon

How do you know? Talk about it with a partner.

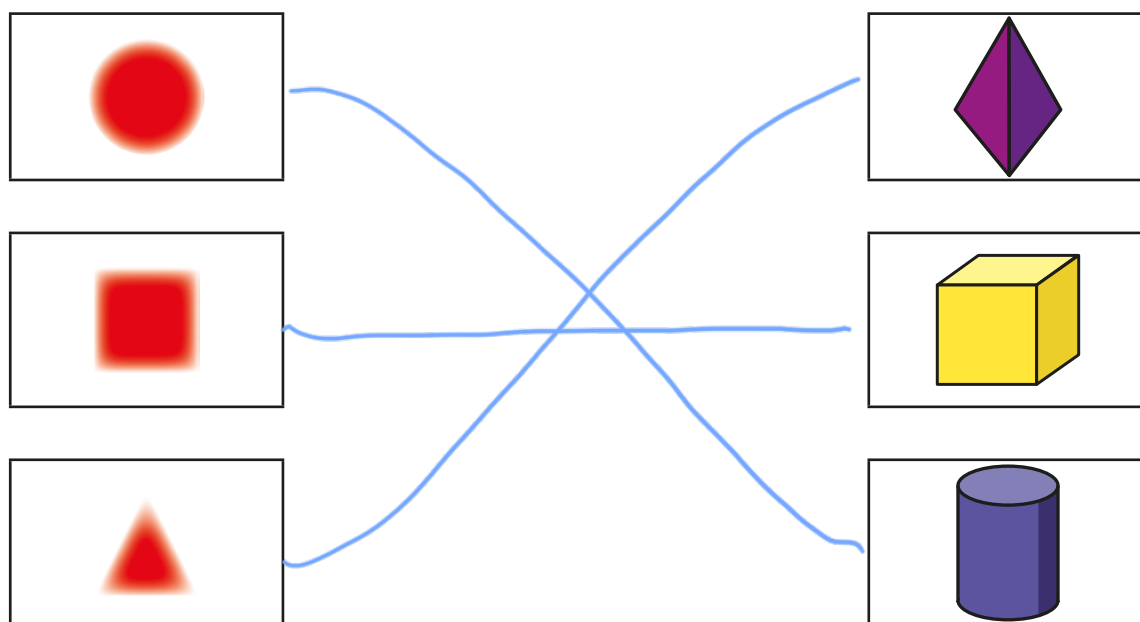
7 Each shape has at least one pair of parallel sides.

Draw on the shapes to show the parallel sides.

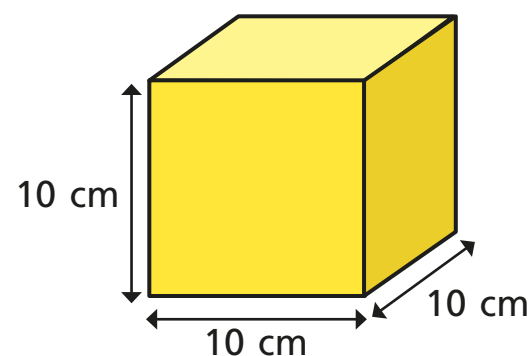


Recognise and describe 3D shapes

- 1 Kim paints the faces of some 3D shapes.
She stamps the faces on to a sheet of paper.
Match the stamp to the 3D shape.



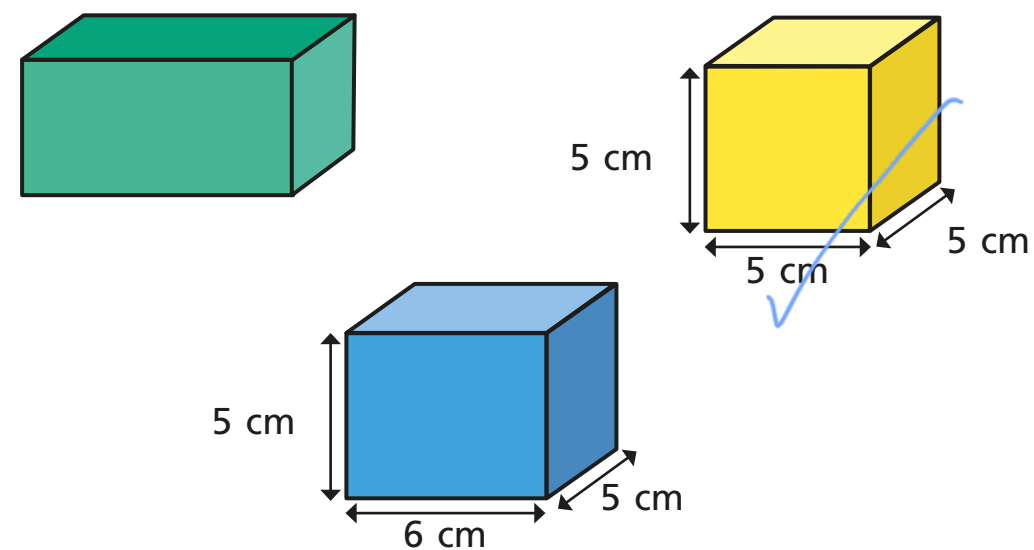
- 2 A cube is a special type of cuboid.



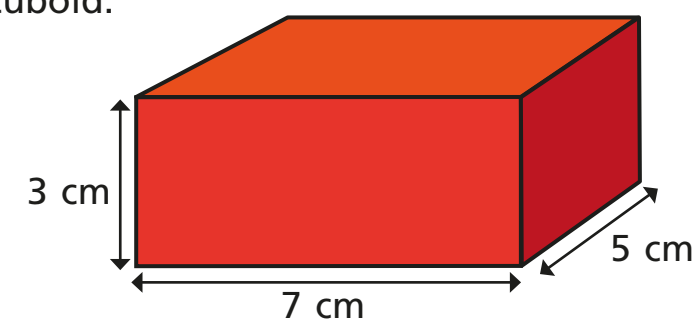
What is special about each face of a cube?
Talk about it with a partner.



- 3 Which of the shapes is a cube? Tick your answer.



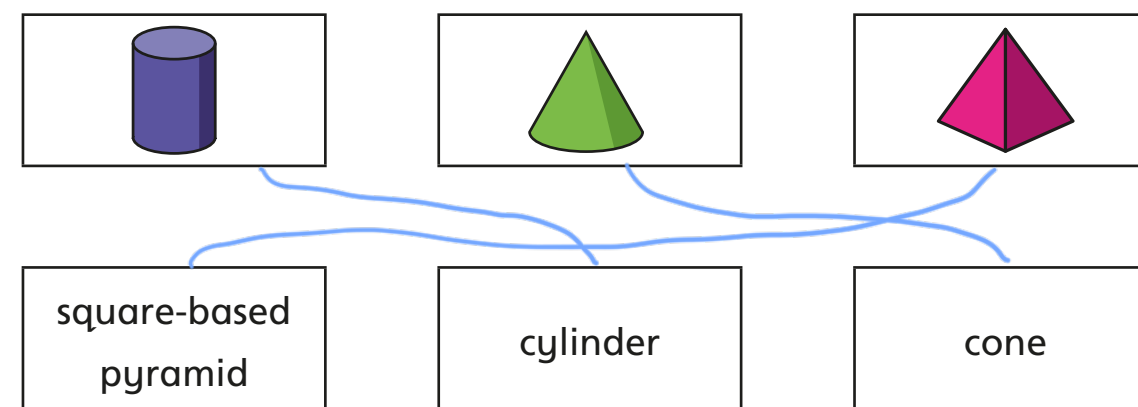
- 4 Here is a cuboid.



What do you notice about the opposite faces of a cuboid?

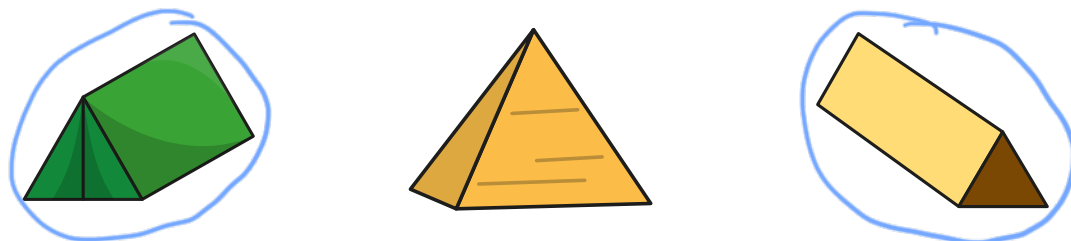
They are identical.

- 5 Match the 3D shapes to the labels.

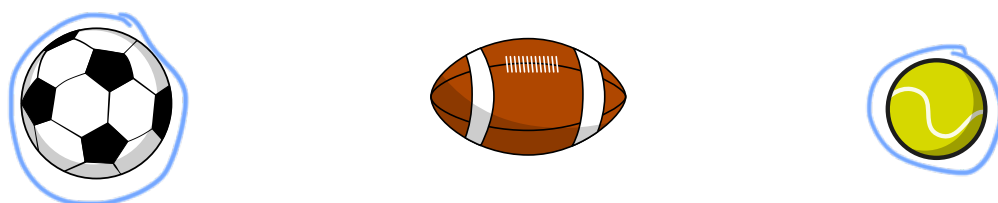


6 Here are some shapes.

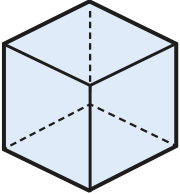
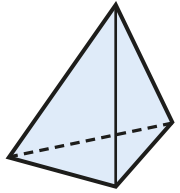
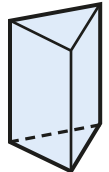
a) Circle all the triangular prisms.



b) Circle all the spheres.

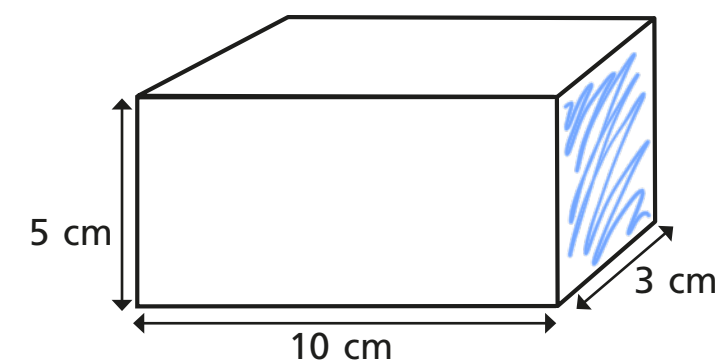


7 Complete the table.

Shape	Number of edges	Number of faces	Number of vertices
	12	6	8
	6	4	4
	9	5	6



8 Here is a cuboid.



a) Shade a face that is a 5 cm by 3 cm rectangle.

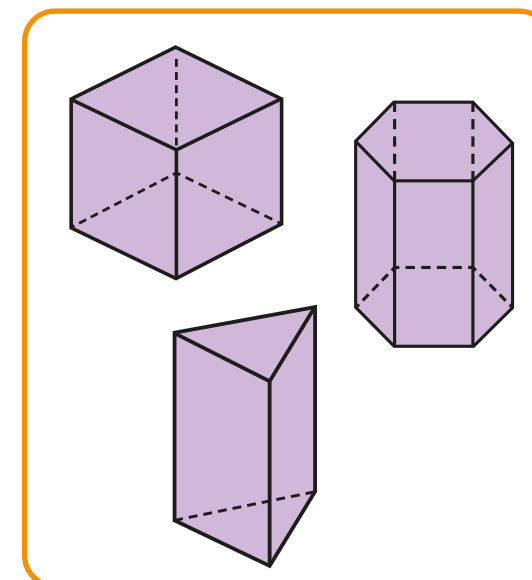
b) What are the measurements of one of the other faces?

e.g. 10 cm by 5 cm

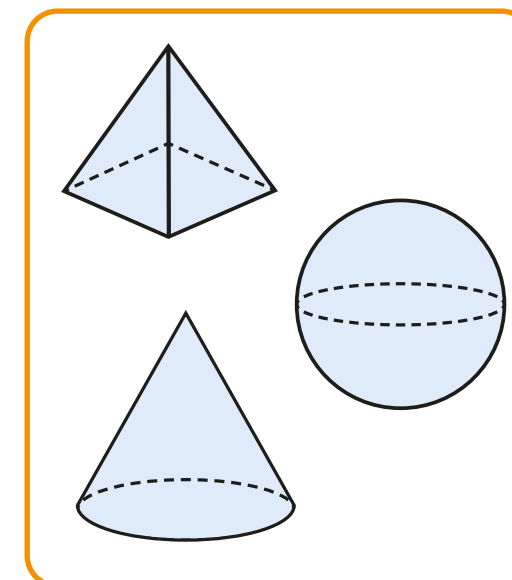


9 Huan sorts some shapes into prisms and non-prisms.

Prisms



Non-prisms



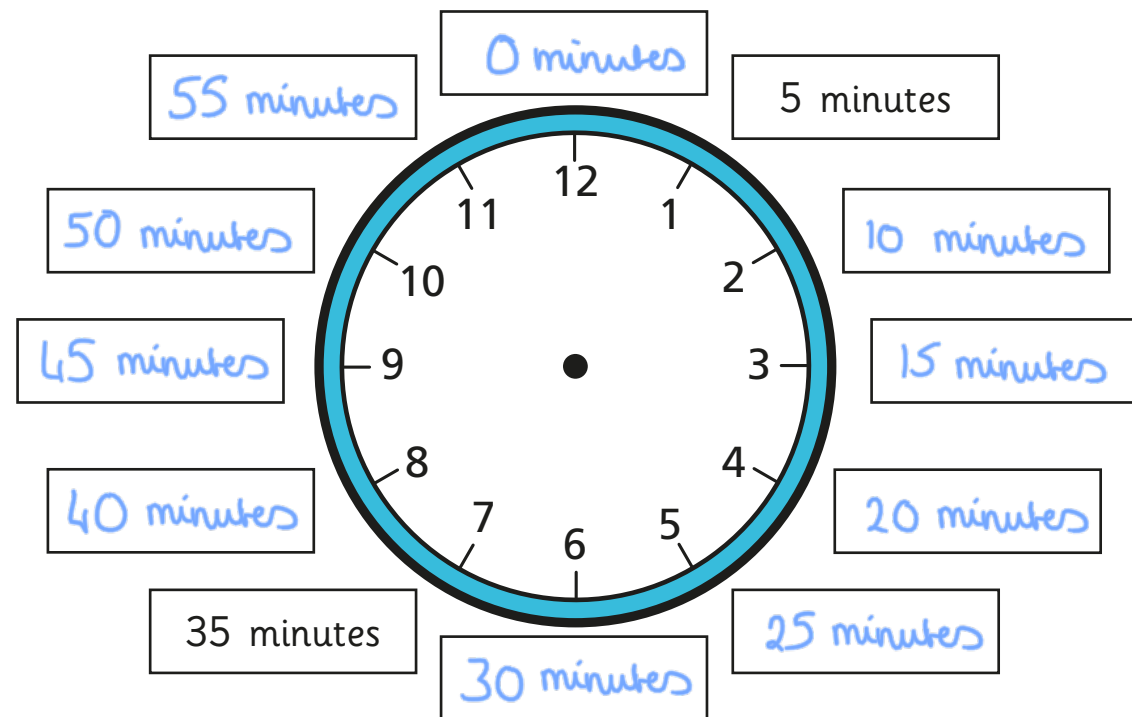
Talk to a partner about what a prism is like.

Can you find any prisms and non-prisms in your classroom?

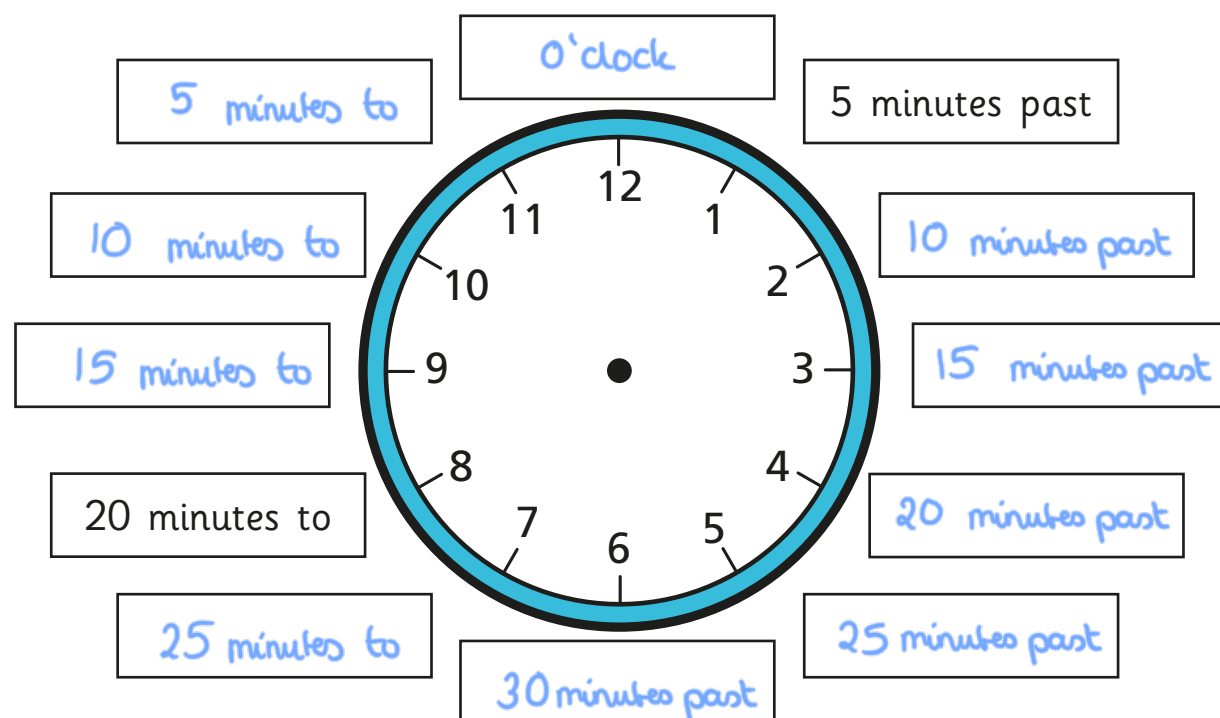


Telling the time to 5 minutes

- 1 Label the clock to show the number of minutes past the hour.

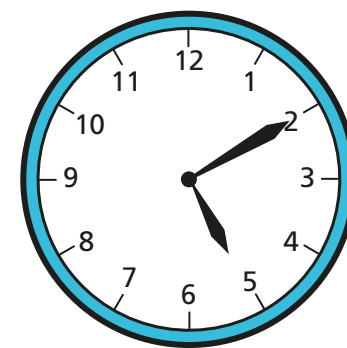


- 2 Label the clock to show what time would be shown if the minute hand was pointing to each interval.



Is there more than one possible answer for each label?

3



The hour hand is pointing just after 5 and the minute hand is pointing to 2, so the time is 2 minutes past 5



What mistake has Ron made?

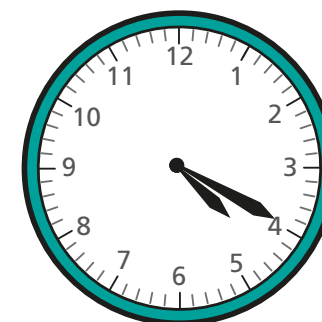
The minute hand pointing to 2 means it is 10 minutes past not 2 minutes past.

What time is it? 10 minutes past 5

4

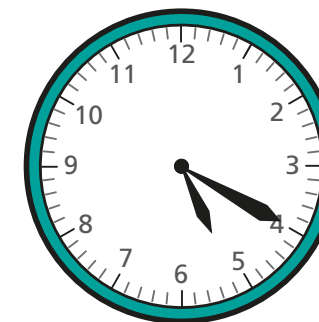
What time is shown on each clock?

a)



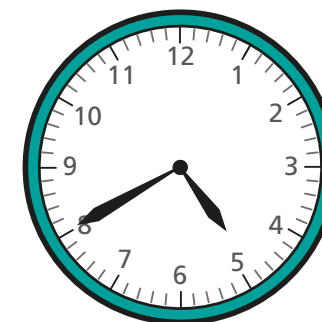
20 minutes past 4

c)



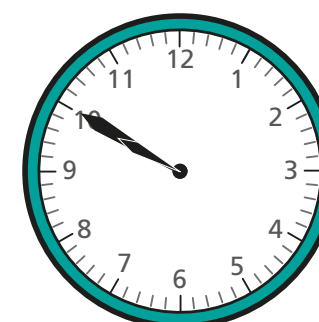
20 minutes past 5

b)



20 minutes to 5

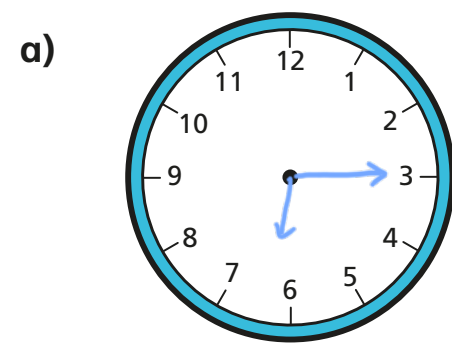
d)



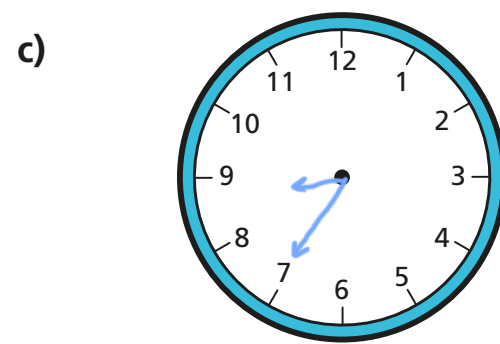
10 minutes to 10



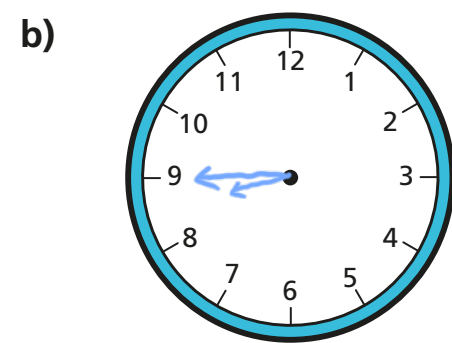
- 5 Draw the hands on the clocks to show the correct times.



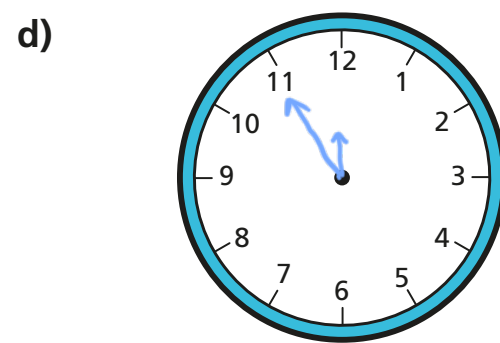
15 minutes past 6



25 minutes to 9

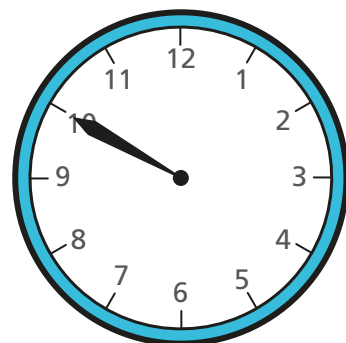


15 minutes to 9



5 minutes to 12

- 6 Jack wants to tell the time, but the hour hand has fallen off the clock.



There are 12 different possible times it could be during a full day.



Do you agree with Jack? No

Talk about it with a partner.



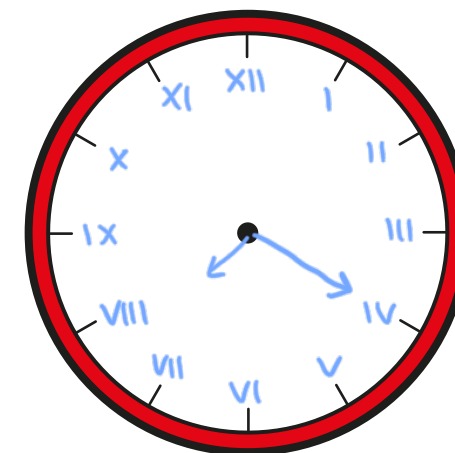
- 7 The minute hand and the hour hand of a clock are both pointing to an even number.
It is before midday. What times could it be?
Give three possible answers.

e.g. 6 o'clock 8 o'clock 10 o'clock

Compare answers with a partner. Can you find any more?

- 8 The numbers of the clock face were written in Roman numerals but they have been rubbed off.
The current time has a V in the hour and a V in the minutes.

e.g.



What time could it be? Draw your answer on the clock.
Are there any other answers?

various answers

Talk about it with a partner.

