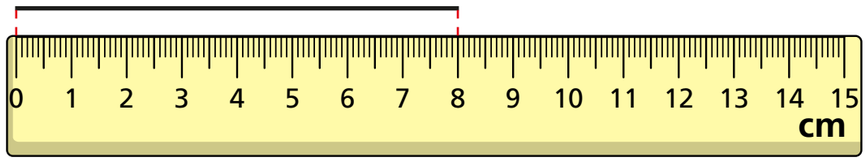
Draw accurately

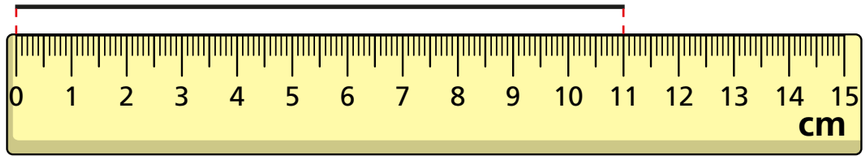
1 How long is each line?

a)



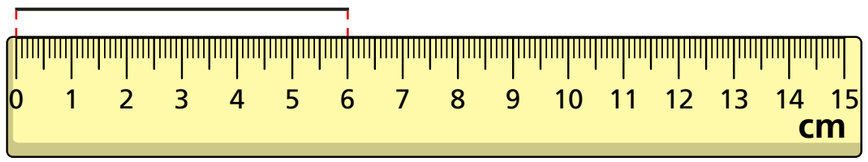
8 cm

b)



11 cm

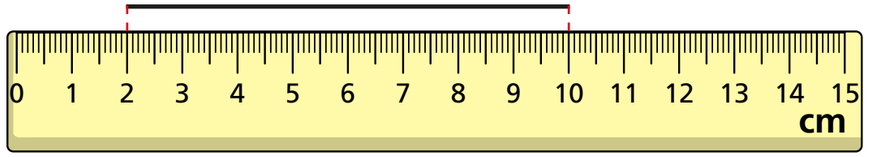
c)



6 cm

2 Draw two lines that are each 5 cm long.

3 Dani says the line is 10 cm long.



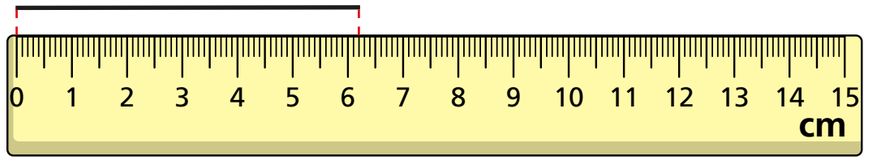
a) What mistake has Dani made?

She hasn't started measuring from 0

b) How long is the line? 8 cm

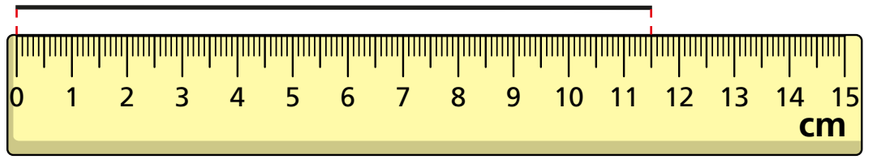
4 What is the length of each line in millimetres?

a)



62 mm

b)



115 mm

c)

mm

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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.

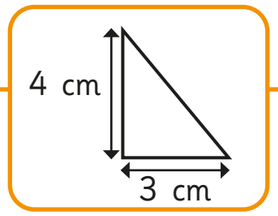
b) Measure the length of the diagonal.

Give your answer in millimetres.

mm

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.

cm

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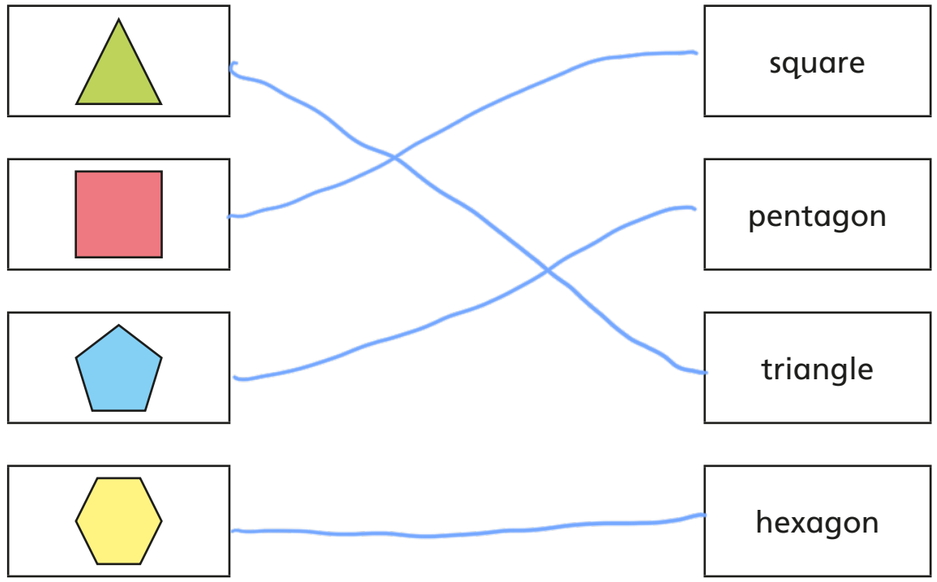
Recognise and describe 2D shapes

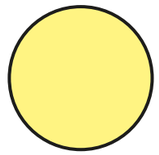
1 Match the shapes to the labels.



2 Use the words to label the shapes.

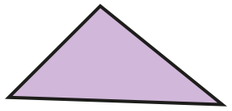
rectangle | hexagon | circle | triangle | pentagon

a)



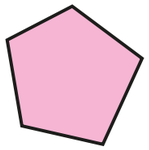
circle

c)



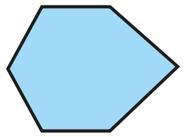
triangle

b)



pentagon

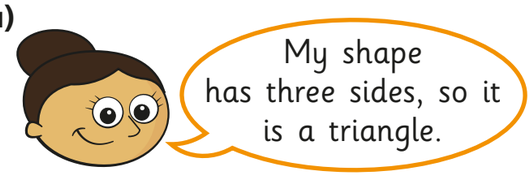
d)



hexagon

3 Dora and Ron each have a shape.

a)



Why is Dora incorrect?

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

b)

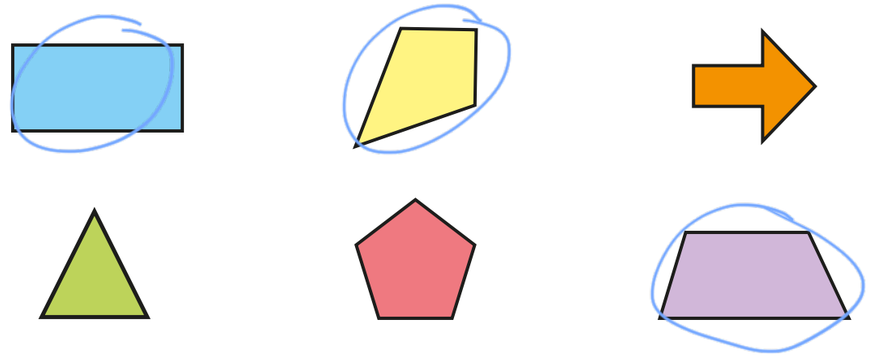
Why might Ron think that? Talk to a partner.

What is the mathematical name for Ron's shape?

pentagon

4 Here are some shapes.

a) Circle all the quadrilaterals.



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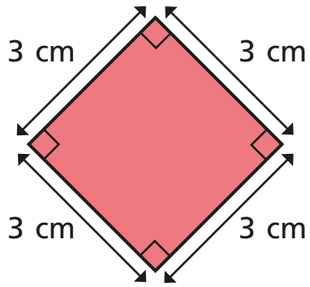
b) Draw three more quadrilaterals.

e.g.

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

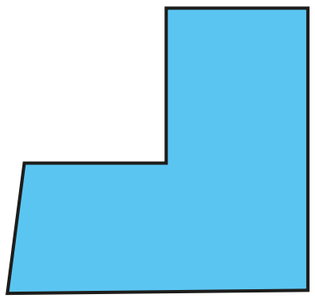
c) Is this shape a square?

Circle your answer. **yes** **no**



Compare answers with a partner.

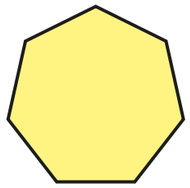
5 This shape is a hexagon.



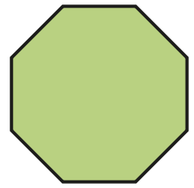
Why is it a hexagon?

It has 6 sides.

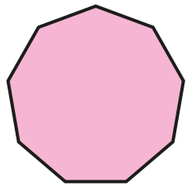
6 What is the name of each shape?



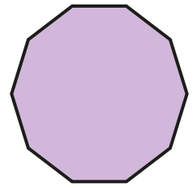
heptagon



octagon



nonagon

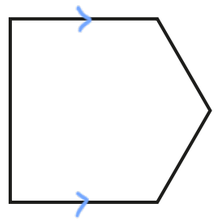


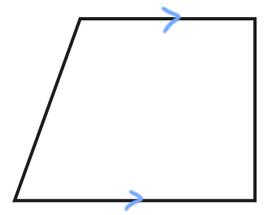
decagon

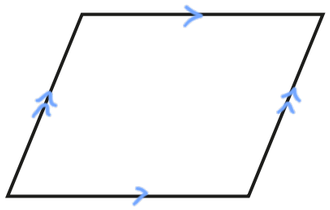
How do you know? Talk about it with a partner.

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

Draw on the shapes to show the parallel sides.







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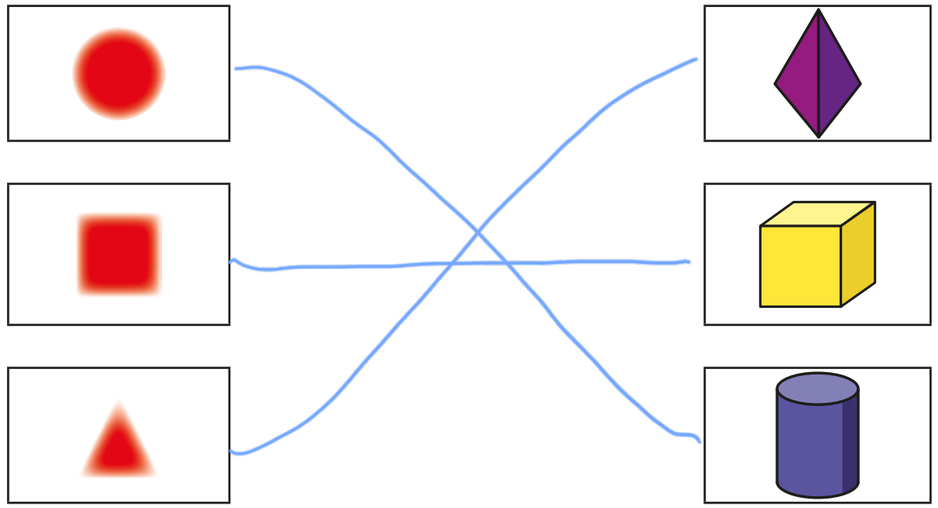
Recognise and describe 3D shapes

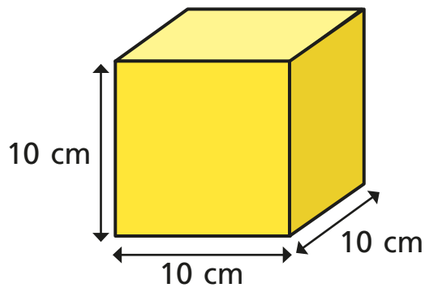
1 Kim paints the faces of some 3D shapes.

She stamps the faces on to a sheet of paper.

Match the stamp to the 3D shape.



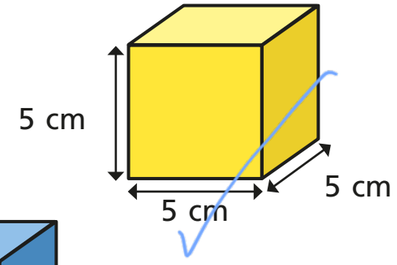
2 A cube is a special type of cuboid.

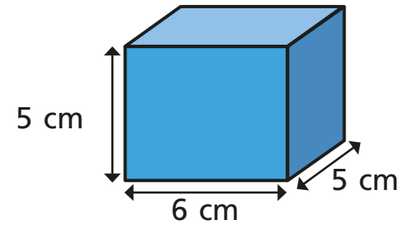


What is special about each face of a cube?

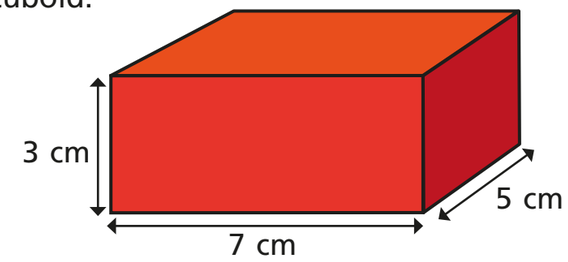
Talk about it with a partner.

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





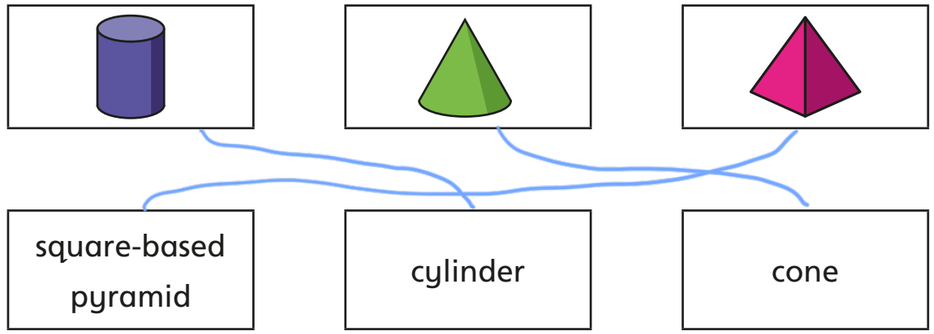
4 Here is a cuboid.



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

They are identical.

5 Match the 3D shapes to the labels.



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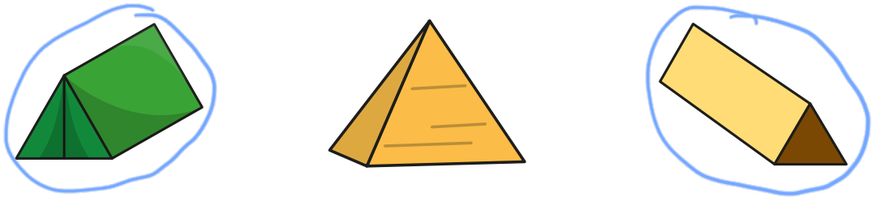
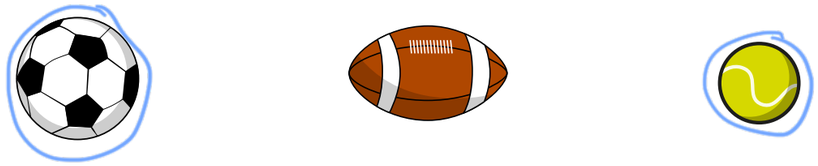
6 Here are some shapes.

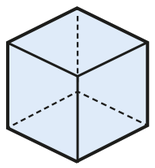
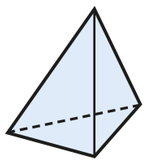
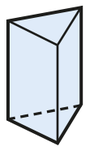
a) Circle all the triangular prisms.



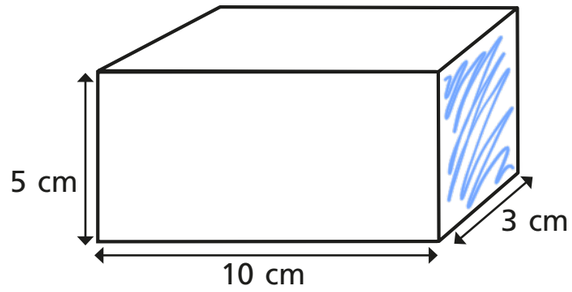
b) Circle all the spheres.



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.



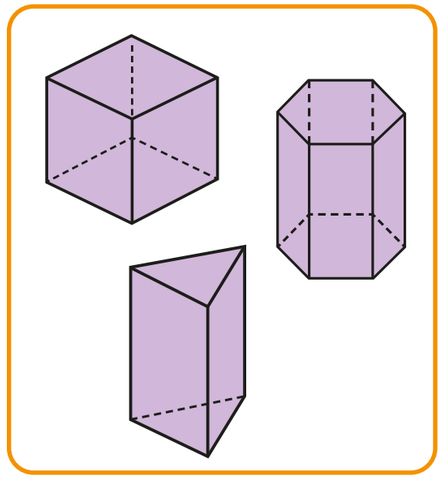
a) Shade a face that is a 5 cm by 3 cm rectangle.

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

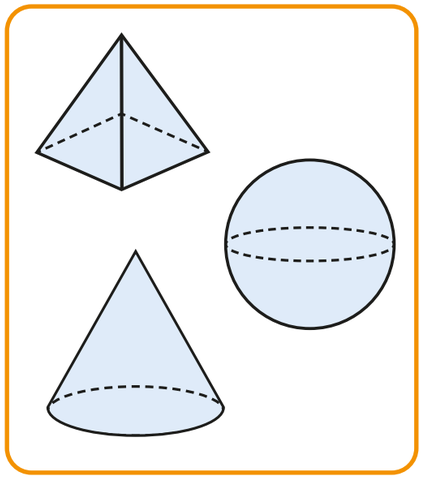
e.g. 10 cm by 5 cm

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?

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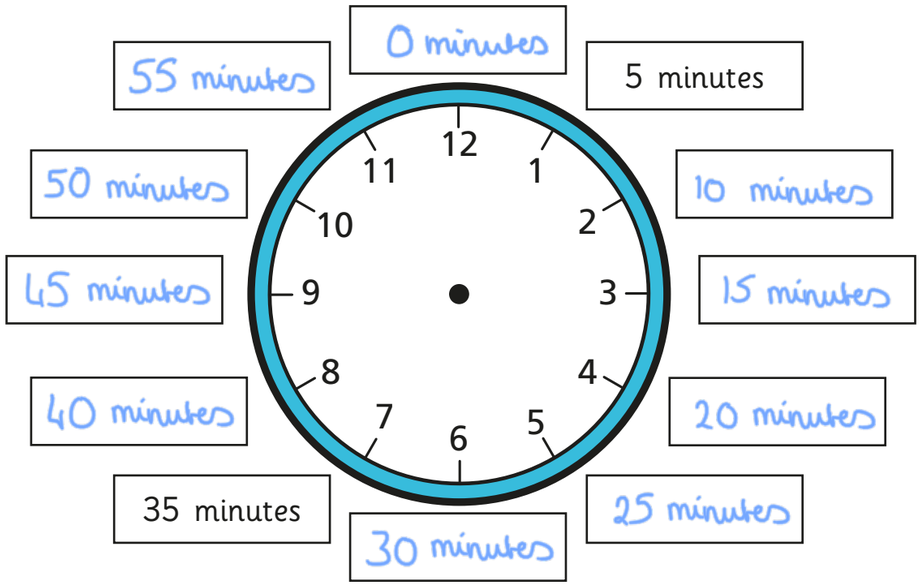
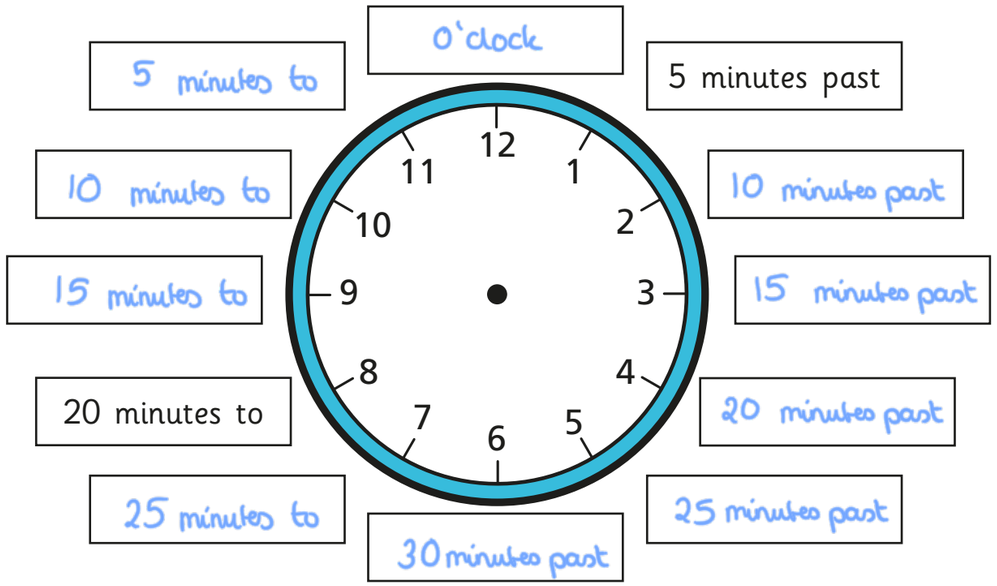
Telling the time to 5 minutes

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

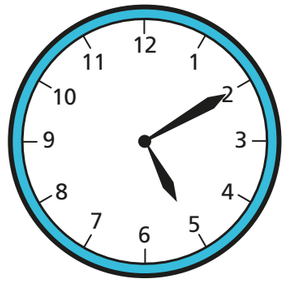


2 Label the clock to show what time would be shown if the minute hand was pointing to each interval.



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.

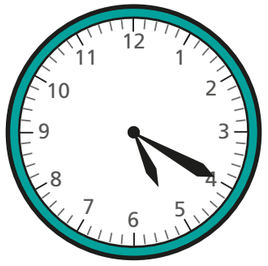
What time is it? 10 minutes past 5

4 What time is shown on each clock?

a)

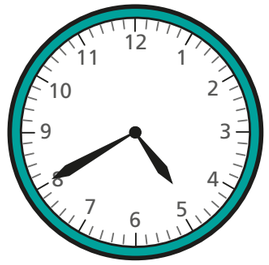
20 minutes past 4

c)



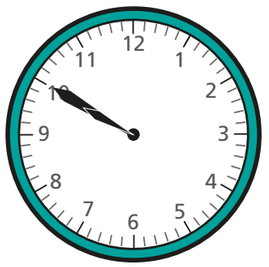
20 minutes past 5

b)



20 minutes to 5

d)



10 minutes to 10

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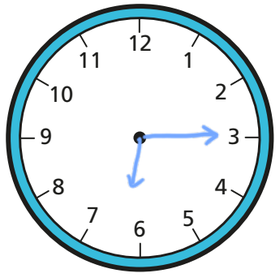
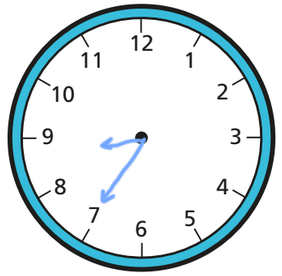
5 Draw the hands on the clocks to show the correct times.

a)



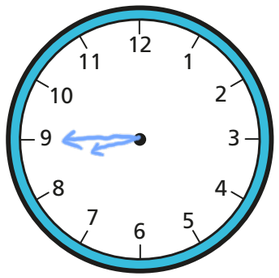
15 minutes past 6

c)



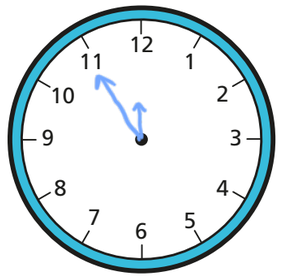
25 minutes to 9

b)



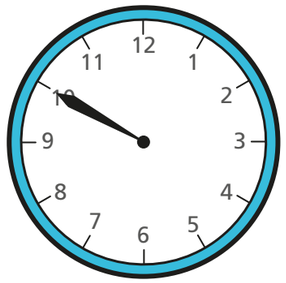
15 minutes to 9

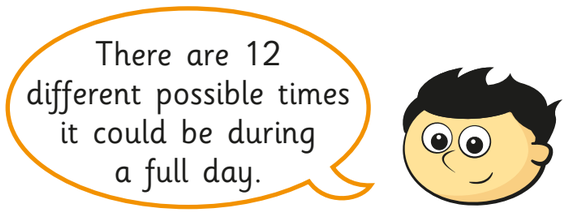
d)



5 minutes to 12

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





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.

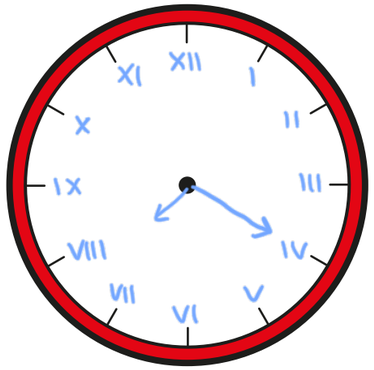
e.g. 6 o'clock 8 o'clock 10 o'clock

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.

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