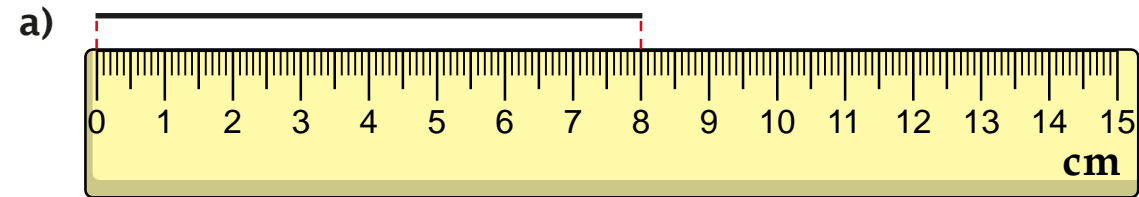
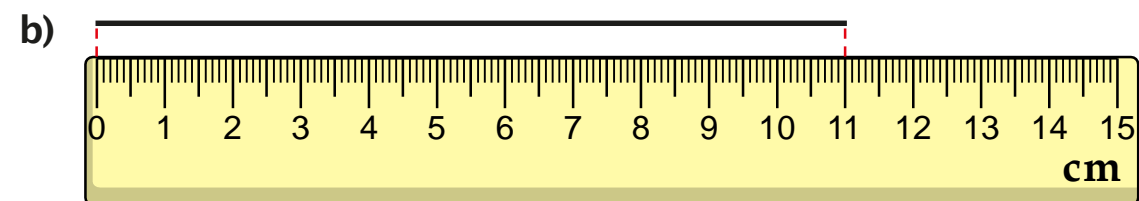


Draw accurately

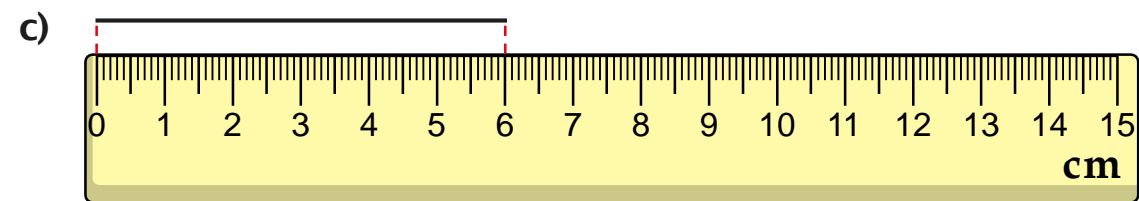
1 How long is each line?



8 cm



11 cm

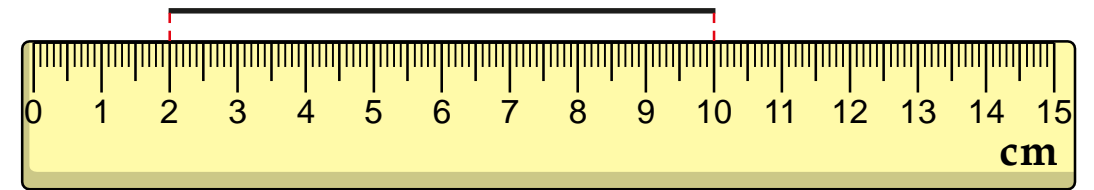


6 cm

2 Draw two lines that are each 5 cm long.



3 Dani says the line is 10 cm long.



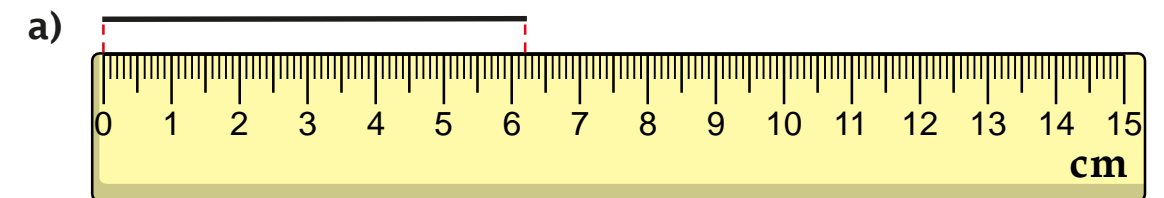
a) What mistake has Dani made?

She hasn't started measuring from 0

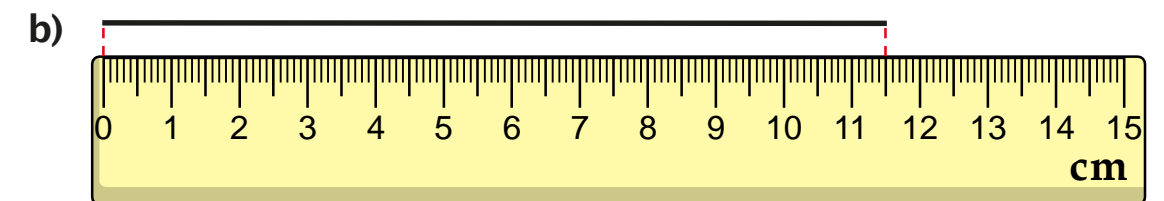
b) How long is the line?

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.

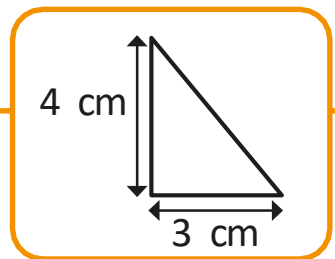
a) Draw a 4 cm by 4 cm square.

b) Measure the length of the diagonal.

Give your answer in millimetres.

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

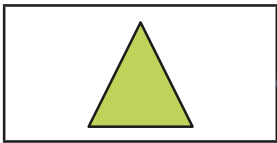
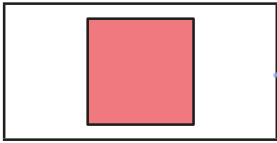
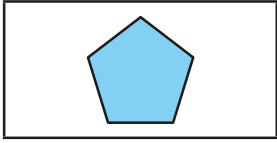
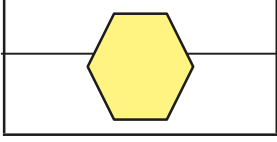
8 a) Make a sketch of the triangle.



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



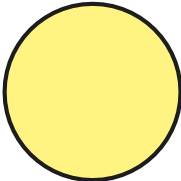
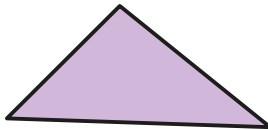
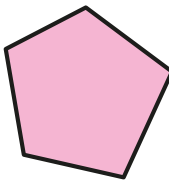
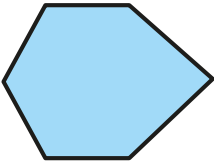
1 Match the shapes to the labels.

				square
				pentagon
				triangle
				hexagon

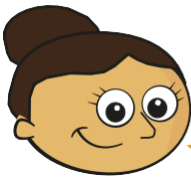
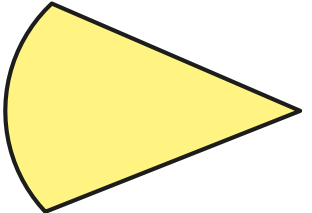
(Handwritten blue lines connect the shapes to their correct labels: Green triangle to triangle, Red square to square, Blue pentagon to pentagon, Yellow hexagon to hexagon.)

2 Use the words to label the shapes.

- rectangle hexagon circle triangle pentagon


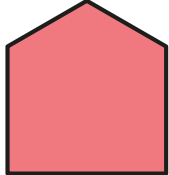
a)  <u>circle</u>	c)  <u>triangle</u>
b)  <u>pentagon</u>	d)  <u>hexagon</u>

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. 

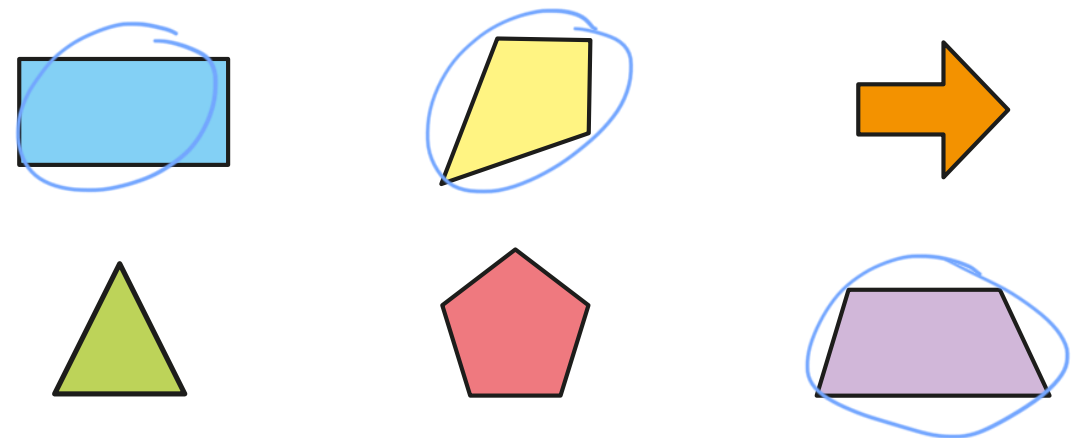
Why might Ron think that? Talk to a partner.

What is the mathematical name for Ron's shape?

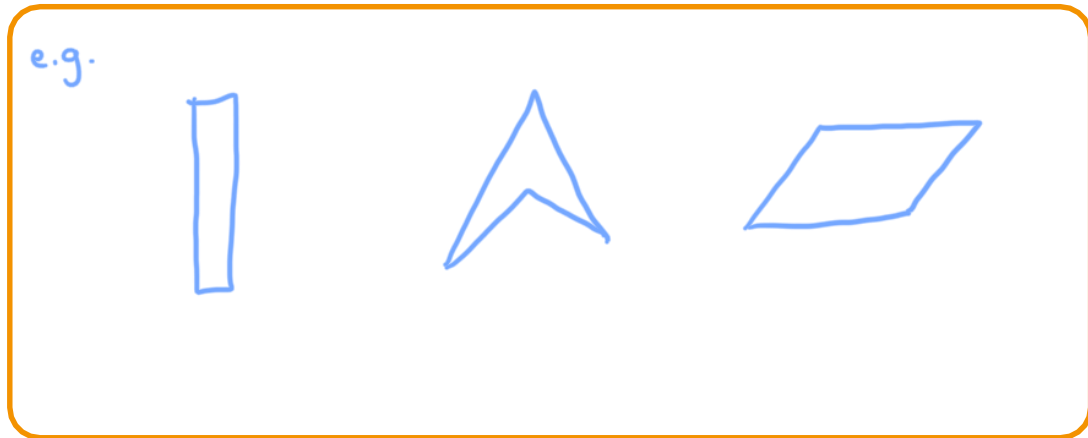
pentagon

4 Here are some shapes.

a) Circle all the quadrilaterals.



b) Draw three more quadrilaterals.



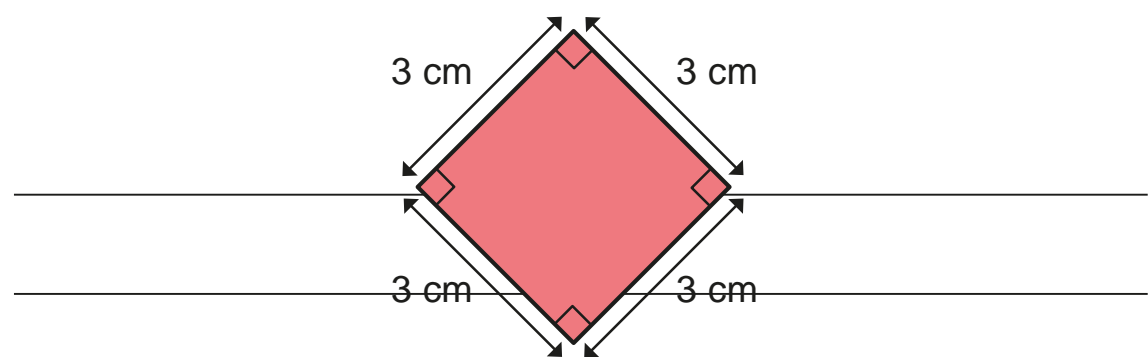
What do you notice about all the shapes you have drawn?

c) Is this shape a square?

Circle your answer.

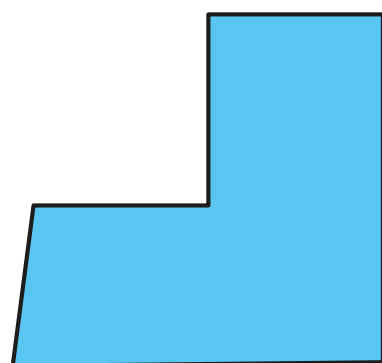
yes

no



Compare answers with a partner.

5 This shape is a hexagon.

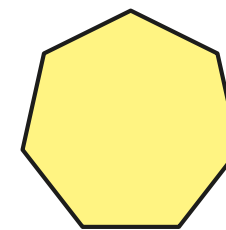


Why is it a hexagon?

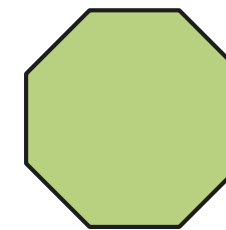
It has 6 sides.



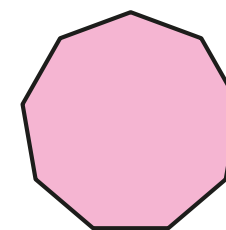
6 What is the name of each shape?



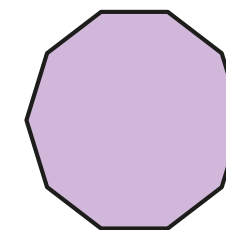
heptagon



octagon



nonagon

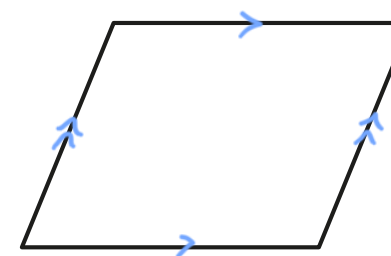
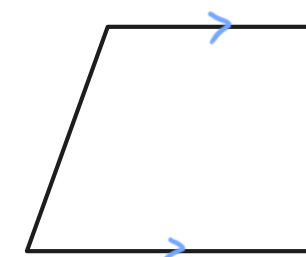
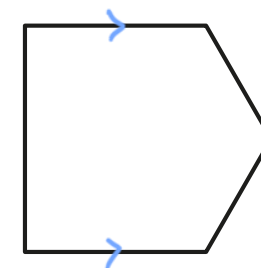


decagon

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

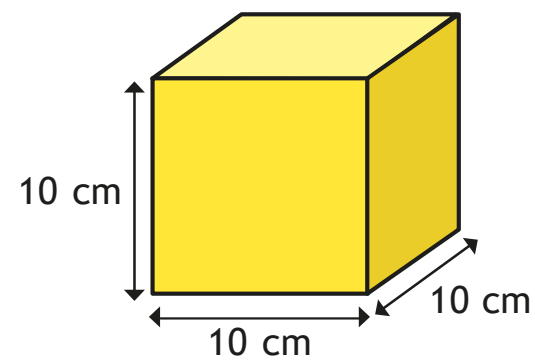
7 Each shape has at least one pair of parallel sides.

Draw on the shapes to show the parallel sides.



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.

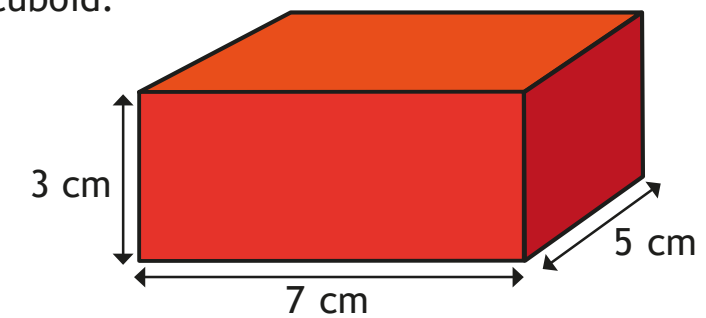


What is special about each face of a cube?
Talk about it with a partner.



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?

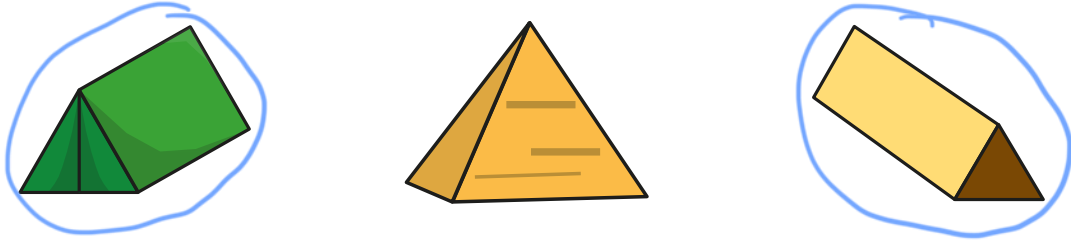
They are identical.

5 Match the 3D shapes to the labels.

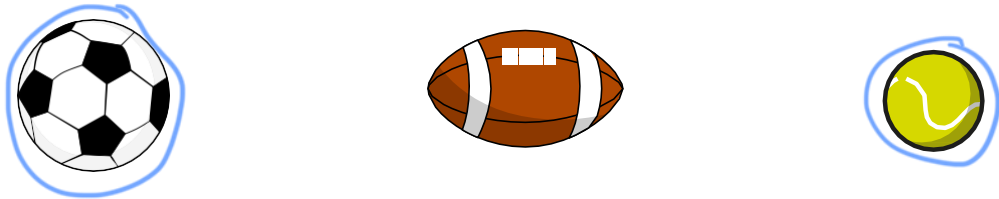


6 Here are some shapes.

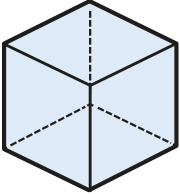
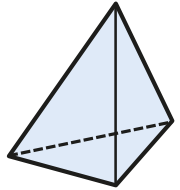
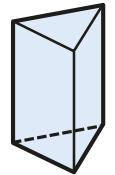
a) Circle all the triangular prisms.



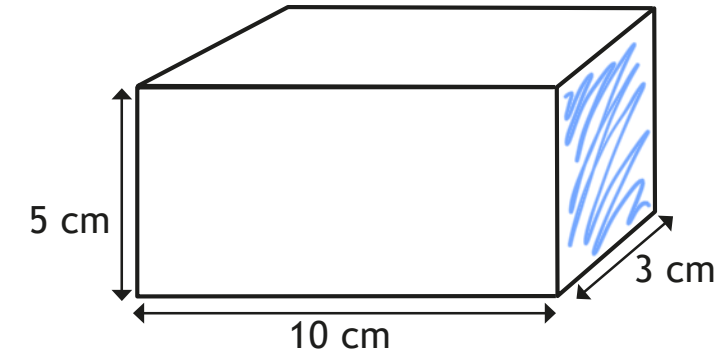
b) Circle all the spheres.



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.



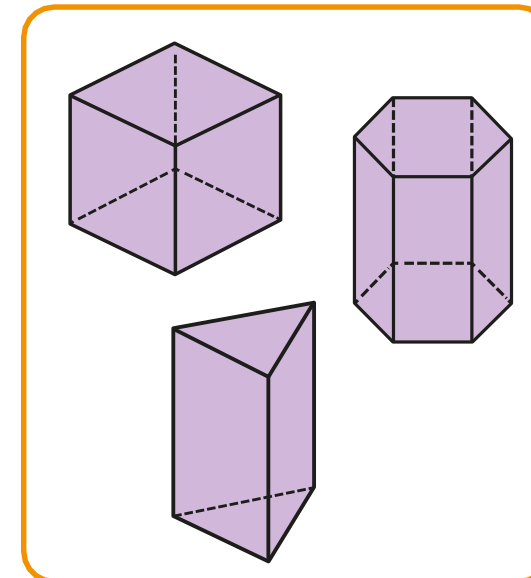
a) Shade a face that is a 5 cm by 3 cm rectangle.

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

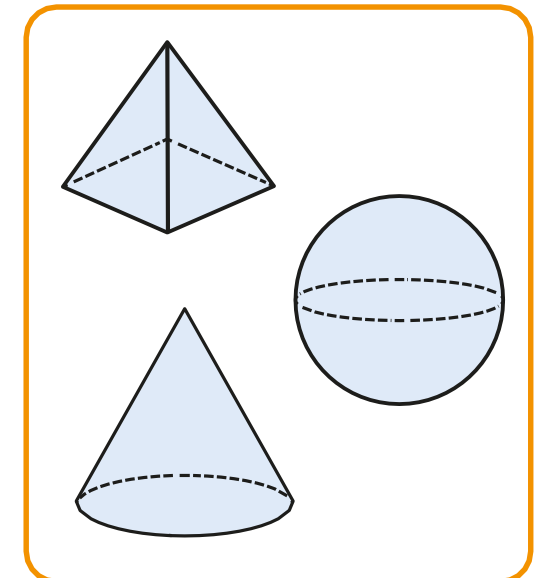
e.g. 10 cm by 5 cm

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.

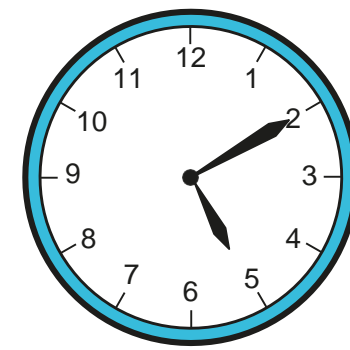
A clock face with handwritten labels in boxes around it. The labels are: 55 minutes, 0 minutes, 5 minutes, 50 minutes, 10 minutes, 45 minutes, 15 minutes, 40 minutes, 20 minutes, 35 minutes, 25 minutes, and 30 minutes.

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

A clock face with handwritten labels in boxes around it. The labels are: 5 minutes to, 0'clock, 5 minutes past, 10 minutes to, 10 minutes past, 15 minutes to, 15 minutes past, 20 minutes to, 20 minutes past, 25 minutes to, 25 minutes past, and 30 minutes past.

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

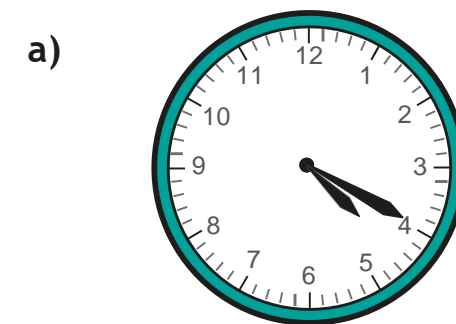
What mistake has Ron made?

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

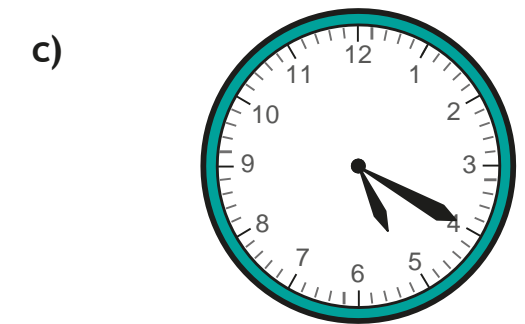
What time is it? 10 minutes past 5

4

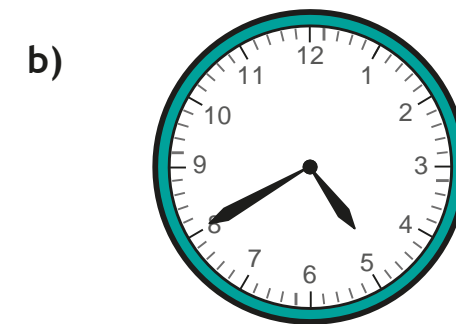
What time is shown on each clock?



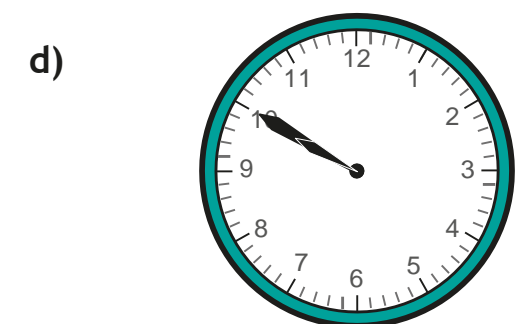
20 minutes past 4



20 minutes past 5



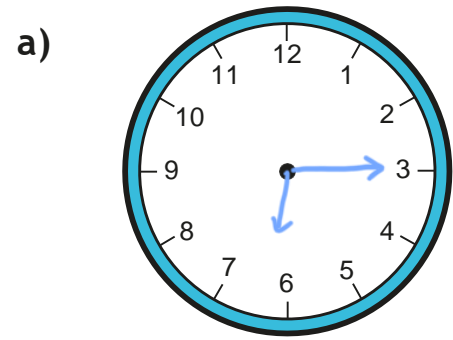
20 minutes to 5



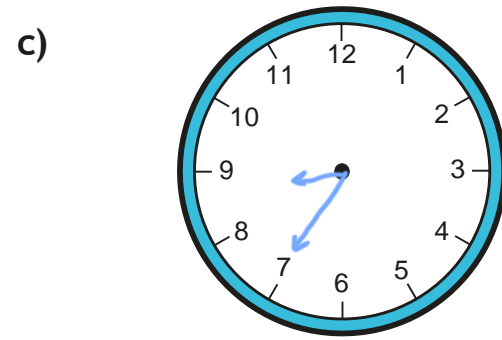
10 minutes to 10



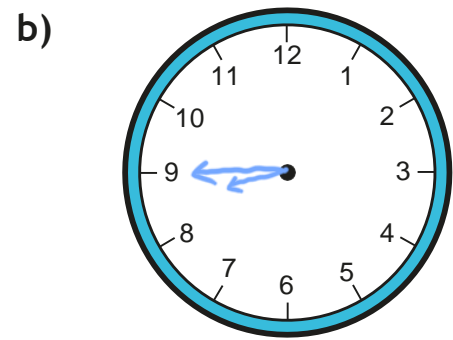
5 Draw the hands on the clocks to show the correct times.



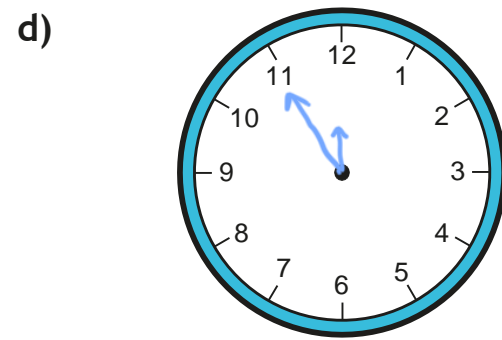
15 minutes past 6



25 minutes to 9

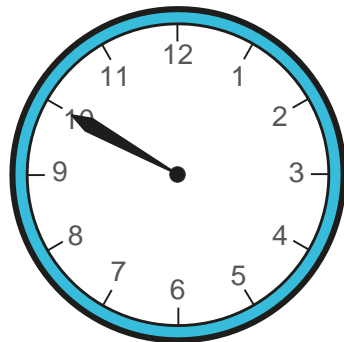


15 minutes to 9



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.

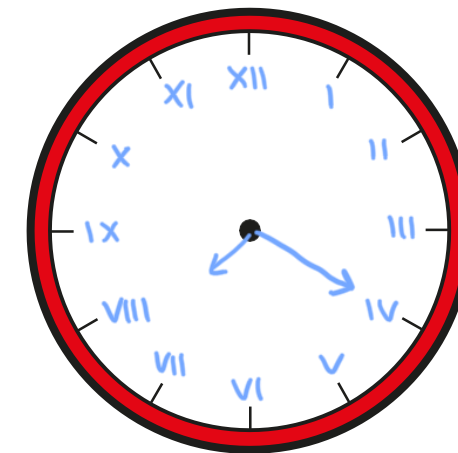
e.g. 6 o'clock 8 o'clock 10 o'clock

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.

