

Monday 22nd June 2020

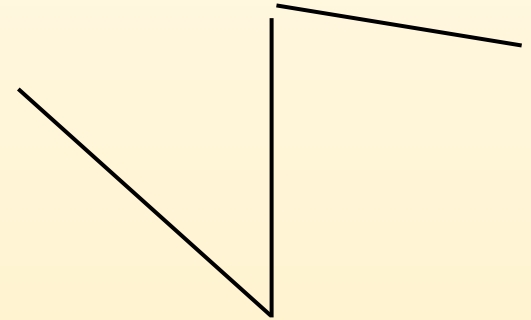
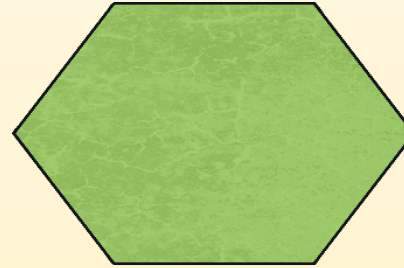
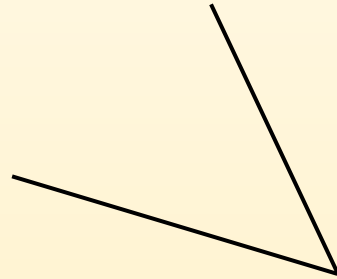
L.O. I am learning to recognise
turns and angles.

Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

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L.O. I am learning to recognise turns and angles.

An angle is made when two straight lines meet.



Each of these pictures shows one or more angles.



Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

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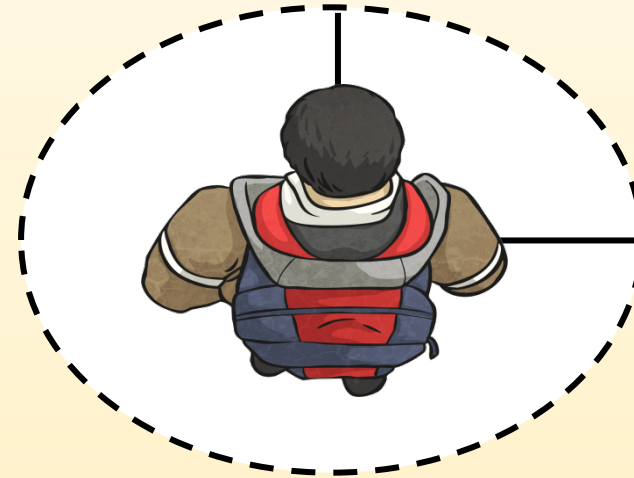
L.O. I am learning to recognise turns and angles.

A right angle is made when two lines meet like this:



The size of a right angle is 90° .

A quarter turn looks like this:



When something makes a quarter turn, it turns 90° .

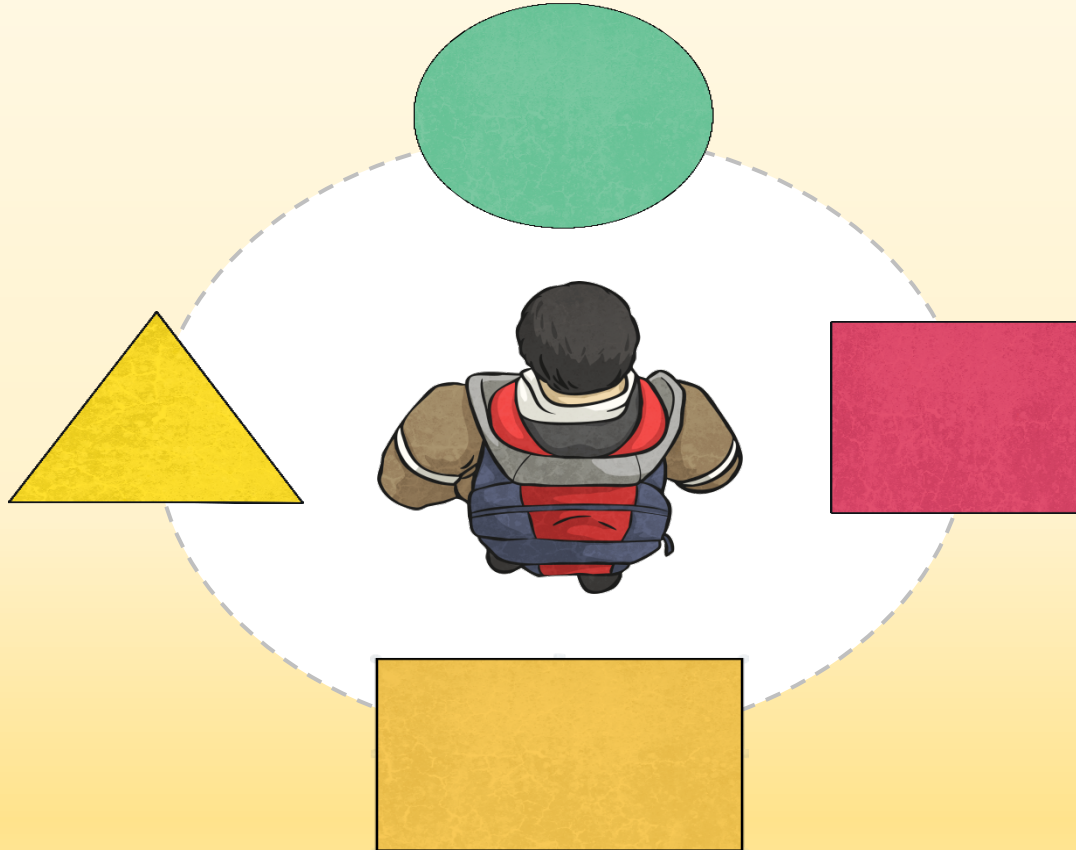


Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

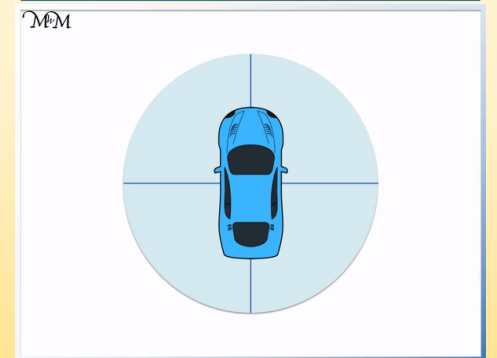
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L.O. I am learning to recognise turns and angles.

The child is facing the circle. If they make a **quarter turn clockwise**, which shape will they be facing?



Watch this animation of turns to help you.

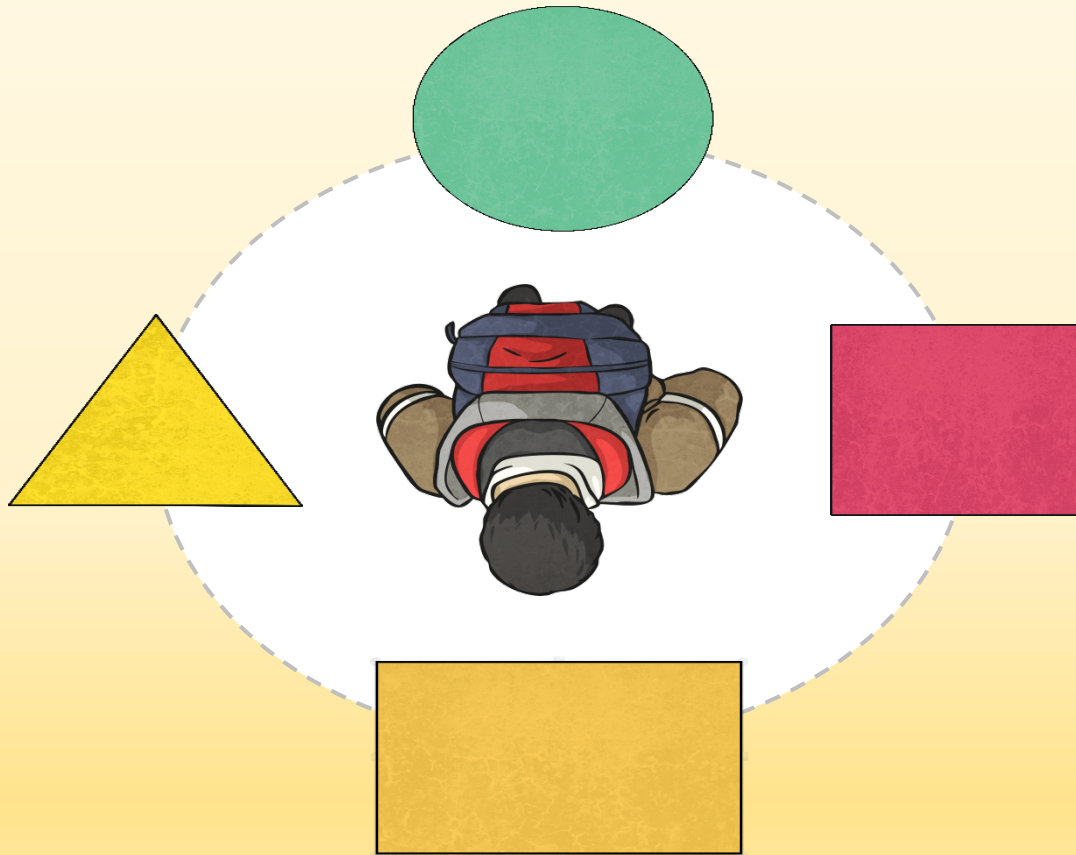


Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

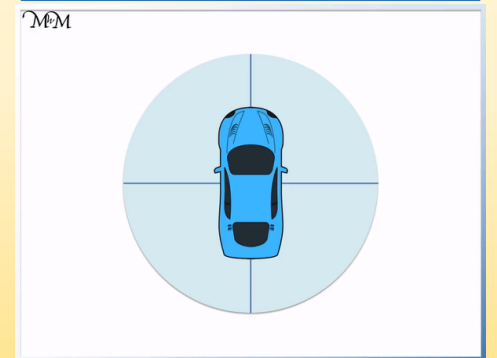
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L.O. I am learning to recognise turns and angles.

The child is facing the rectangle. If they make a **three-quarter turn anticlockwise**, which shape will they be facing?



Watch this animation of turns to help you.

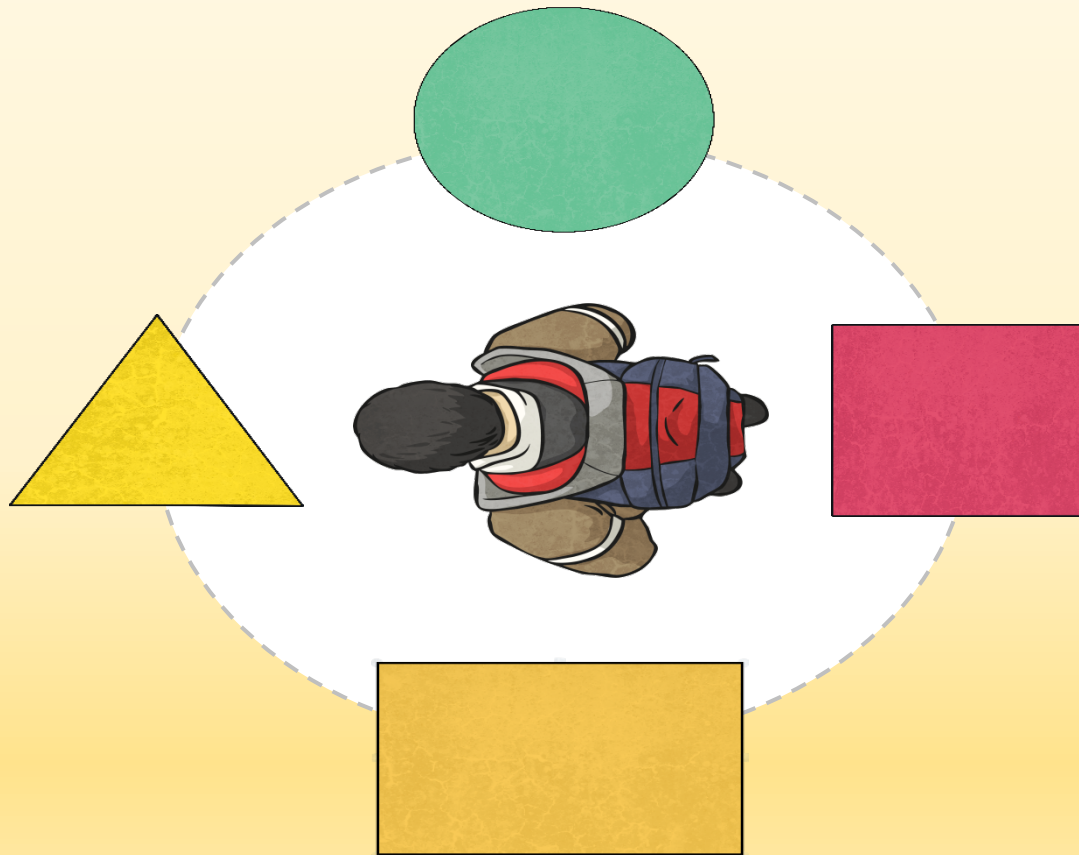


Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

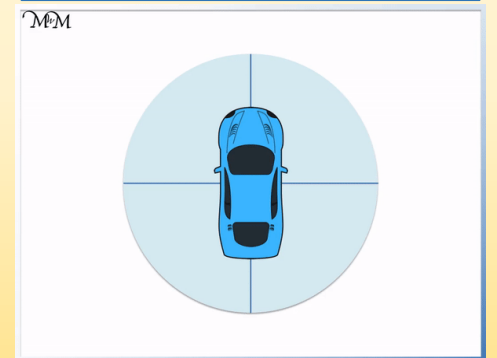
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L.O. I am learning to recognise turns and angles.

The child makes a **quarter turn clockwise** to face the circle. Is there another way he could have turned to end up in the same position?



Watch this animation of turns to help you.

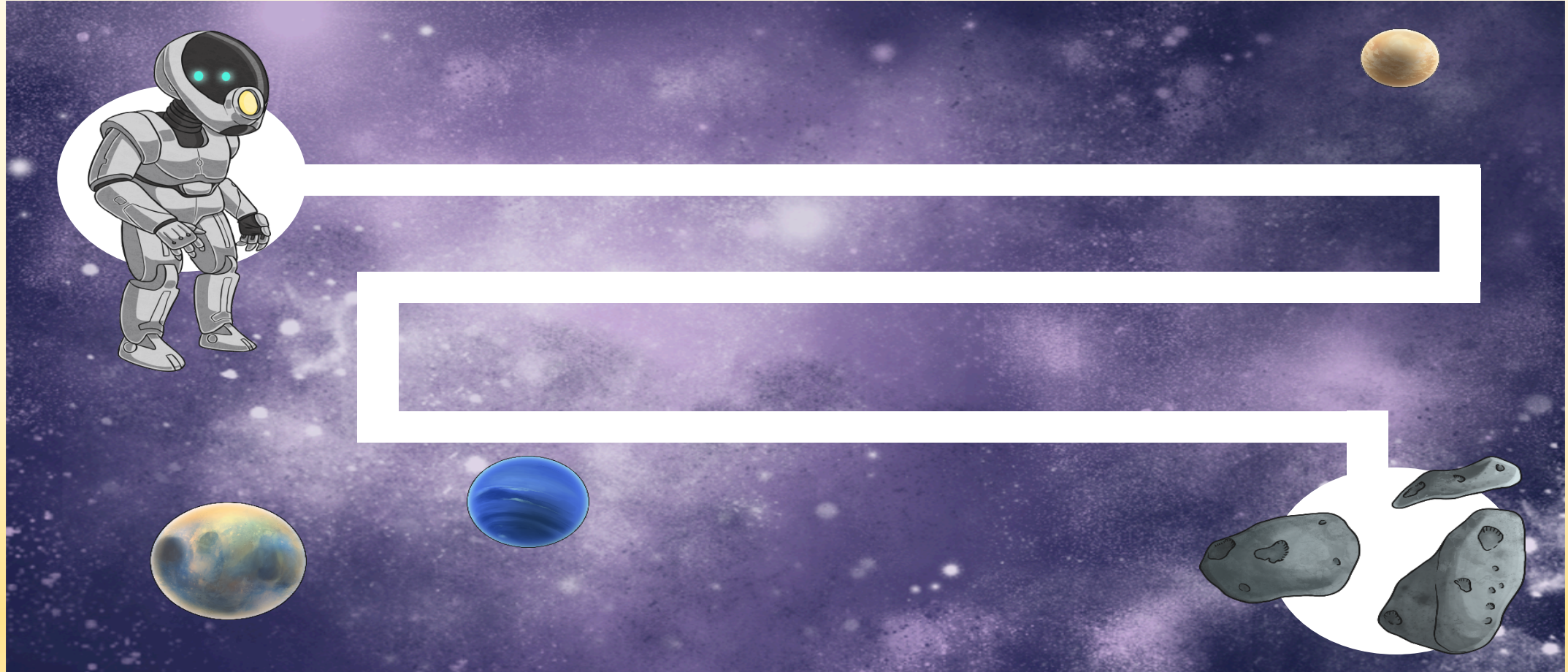


Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

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L.O. I am learning to recognise turns and angles.

What turning instructions would you give to the robot to escape the maze?



Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter

Monday 22nd June 2020

L.O. I am learning to recognise turns and angles.

Complete as much of the worksheet as you can. Print the worksheet or write down your answers on paper and send a photo.

Turns and angles

1 Which pictures show at least one angle? Tick your answers.

Compare answers with a partner.

2 The arrows are being turned clockwise. Match the picture to the turn.

half turn
quarter turn
full turn
three-quarter turn

3 Here is a compass.

a) Aisha is facing north. She turns a quarter turn clockwise. What direction is she facing now? _____

b) Tommy is facing north. He turns a quarter turn anticlockwise. What direction is he facing now? _____

c) Annie is facing east. She turns a three-quarter turn clockwise. What direction is she facing now? _____

4 Mo and Eva are answering a question.

Mr Lee is facing west. He turns a half turn. What direction is he facing now?

Mo: I cannot answer this because we don't know what direction he turns in.

Eva: It does not matter about the direction!

Who do you agree with? _____

Talk about it with a partner.

5 Esther and Brett are showing what time it will be in a quarter of an hour. Here is the time now.

Here are their answers.

Esther: _____

Brett: _____

Who is correct? _____

Talk about it with a partner.

6 Draw hands on the clocks to show the new times.

a) half an hour later

b) quarter of an hour later

7 A figure skater is facing the direction shown. She turns a quarter turn clockwise and then a three-quarter turn clockwise.

a) Draw on the picture to show that she ends up facing the same way as she started.

b) What other turns could she make and still end up facing the same way?

Compare answers with a partner.

Key vocabulary: turn angles clockwise anti-clockwise quarter half three-quarter



Challenges:

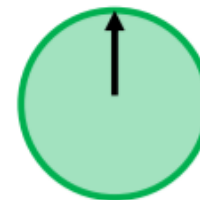
Look at the hands of the clock.
Turn the minute hand one quarter of a turn clockwise.
Where is the large hand pointing?
What is the new time?



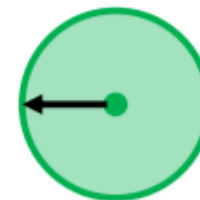
Tick the images where you can see an angle.
Explain your choices.



The arrow on a spinner started in this position.



After making a turn it ended in this position.



Jack says,



The arrow has moved
a quarter turn
anti-clockwise.

Alex says,



The arrow has moved
a three-quarter turn
clockwise.

Who do you agree with?



Well done!

Now it's time to check your work.

Tuesday 23rd June 2020

L.O. I am learning to identify
right angles in shapes.

Key vocabulary: turn angles right-angle quarter half three-quarter

Tuesday 23rd June 2020

L.O. I am learning to identify right angles in shapes.

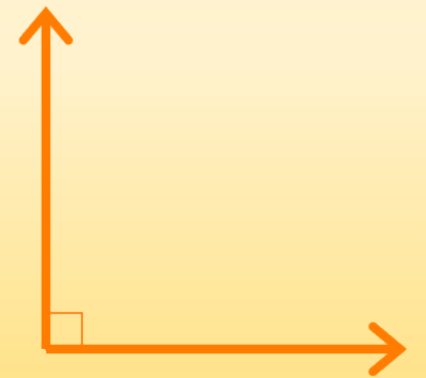
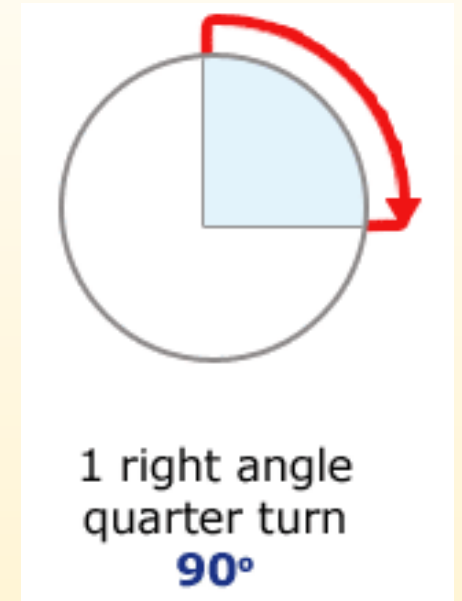
Today we are looking at right angles.

What is a right angle?

Watch this clip on right angles before
completing today's worksheet.

Today's clip:

<https://www.youtube.com/watch?v=9PakNIwDin4>



Key vocabulary: turn angles right-angle quarter half three-quarter



Tuesday 23rd June 2020



L.O. I am learning to identify right angles in shapes.



Complete as much of the worksheet as you can. Print the worksheet or write down your answers on paper and send a photo.

Right angles in shapes

1 There is at least one right angle in each picture. Mark the right angles on the pictures. The first one has been done for you.


a)  d) 

b)  e) 


c)  f) 

Compare answers with a partner.

2 A rectangle has four right angles. Mark the right angles on the rectangle.



3 Alex and Jack are identifying right angles.




Alex: Both of the angles are right angles.

Jack: I disagree. The first one is a right angle but the second one is a left angle because it is on the left of the line.

Who do you agree with? _____

Talk about it with a partner.

4 Dexter is facing north. He turns a quarter turn.



This is the same as one right angle.

Do you agree with Dexter? _____

Talk about it with a partner.

5 Complete the sentences.



A quarter turn is equal to right angle.



A half turn is equal to right angles.

A three-quarter turn is equal to right angles.









A full turn is equal to right angles.

6 Draw the right angles on each shape.

a)  c) 

b)  d) 

7 Look at the number of right angles in each shape. Sort the shapes into the table.

A	B	C	D	E	F	G	H
							
0 right angles	1 right angle	2 right angles	3 right angles	4 right angles			

8 Teddy and Whitney are identifying right angles.

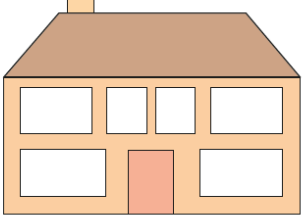
Teddy: I can see five right angles.

Whitney: I can see six!

Who do you agree with? _____

Draw on the shape to show your thinking.

9 How many right angles can you find in the picture? Mark them on the picture.



Create your own problem like this for a partner.

Key vocabulary: turn angles right-angle quarter half three-quarter



Challenges:

How many right angles can you see in this image?



Can you create your own image with the same number of right angles?

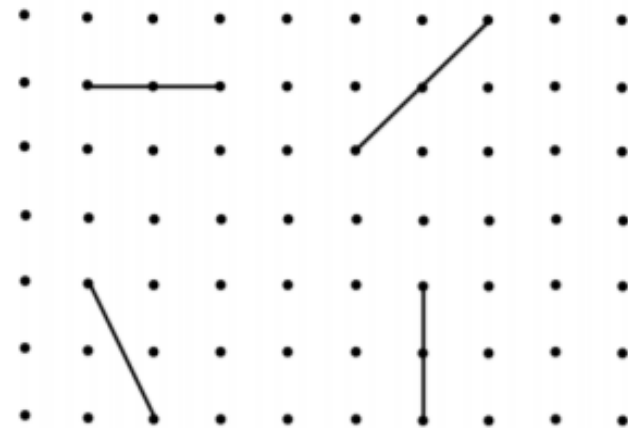
True or False?

This shape has two right-angles.



Explain your answer.

Draw a line along the dots to make a right-angle with each of these lines:





Well done!

Now it's time to check your work.

Wednesday 24th June 2020

L.O. I am learning to compare angles.

Key vocabulary: angles acute right-angle obtuse greater than less than degrees

Wednesday 24th June 2020

L.O. I am learning to compare angles.

Today we are looking at different angles.

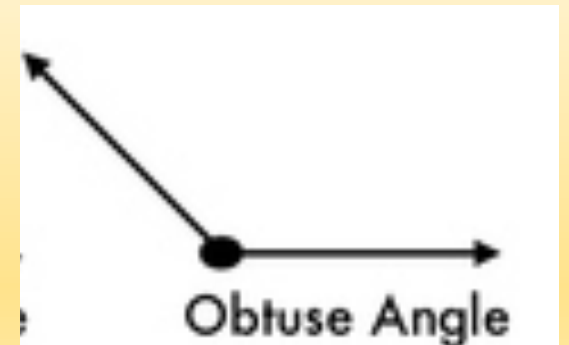
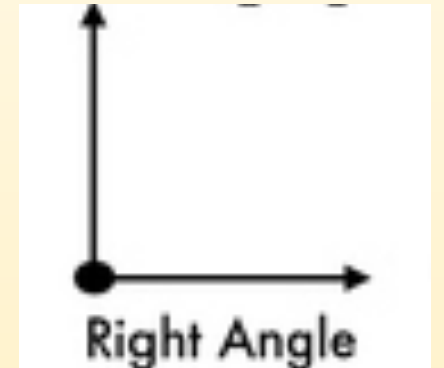
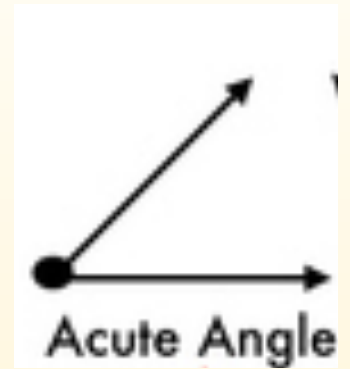
Acute, right angle and obtuse.

Watch these clips on angles before
completing today's worksheet.

Today's clips:

<https://www.youtube.com/watch?v=9RTM418qfdI>

<https://www.youtube.com/watch?v=NVuMULQjb3o>



Key vocabulary: angles acute right-angle obtuse greater than less than degrees

Wednesday 24th June 2020

L.O. I am learning to compare angles.

Complete as much of the worksheet as you can. Print the worksheet or write down your answers on paper and send a photo.

Compare angles

1 Here are some angles.

a) Circle the angle that is greater than a right angle.

b) Circle the angle that is less than 90 degrees.


2 Draw three different angles that are less than a right angle.


Compare answers with a partner.
Complete the sentence.
These are all examples of _____ angles.

3 Draw two different obtuse angles.

Compare answers with a partner.
Complete the sentence.
Obtuse angles are greater than _____ degrees
but less than _____ degrees.

4 Is the angle between the hands of the clock acute or obtuse?

a)  _____

b)  _____




5 Here is a piece of wallpaper.




a) Mark two right angles on the wallpaper.




b) Mark four acute angles on the wallpaper.

c) Mark two obtuse angles on the wallpaper.

6 Write $<$, $>$ or $=$ to compare the sizes of the angles.

a)   

b)   

c)   

7 Draw a shape that has one right angle, two acute angles and one obtuse angle.

Compare answers with a partner.
What is the same and what is different about your shapes?

Key vocabulary: angles acute right-angle obtuse greater than less than degrees

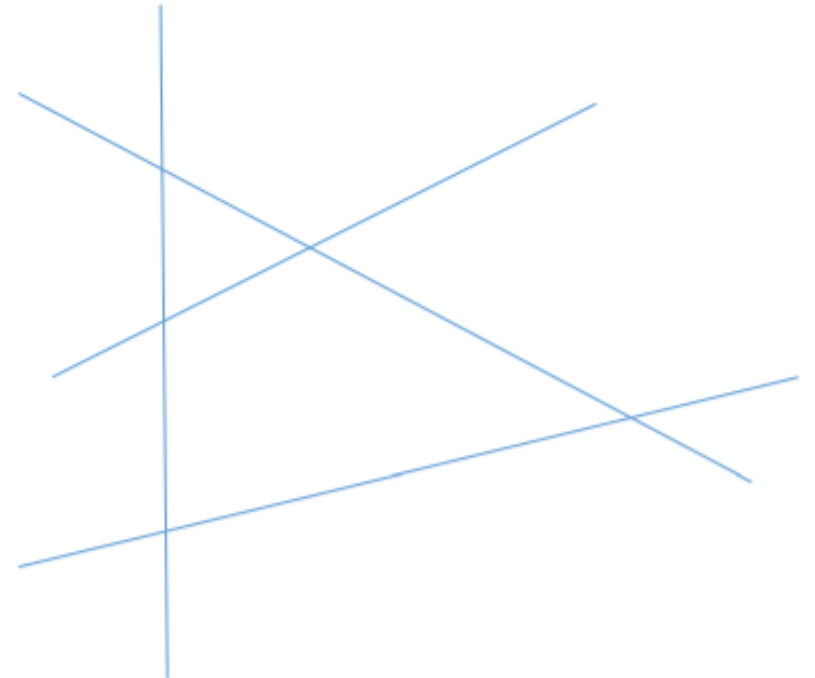


Challenges:

Label any acute or obtuse angles in these images.



Label the acute angles (A) and obtuse angles (O) on the diagram below



Teddy describes a shape.



My shape has 3 right angles and 2 obtuse angles.

What could Jack's shape look like?

Describe a shape in terms of its angles for a friend to draw.



Well done!

Now it's time to check your work.

Thursday 25th June 2020

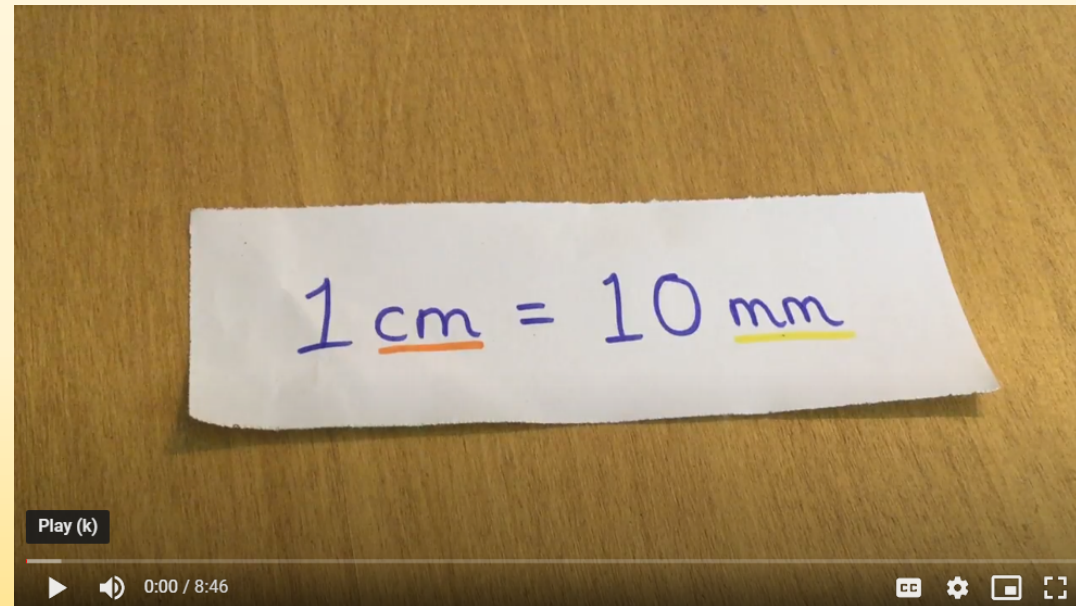
L.O. I am learning to draw lines accurately.

Key vocabulary: line millimetre (mm) centimetre (cm) long length ruler

Thursday 25th June 2020

L.O. I am learning to draw lines accurately.

Watch the video for Lesson 4 on drawing lines accurately.



Key vocabulary: line millimetre (mm) centimetre (cm) long length ruler


Thursday 25th June 2020


L.O. I am learning to draw lines accurately.


Complete as much of the worksheet as you can. Print the worksheet or write down your answers on paper and send a photo.

Draw accurately

1 How long is each line?


a)  cm

b)  cm

c)  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?

b) How long is the line? cm

4 What is the length of each line in millimetres?

a)  mm

b)  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?

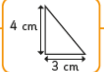
6 Use a ruler to help you answer the questions.

a) Draw a 4 cm by 4 cm square.

b) Measure the length of the diagonal.
Give your answer in millimetres. 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

Key vocabulary: line millimetre (mm) centimetre (cm) long length ruler



Challenges:

Draw straight lines that measure exactly:

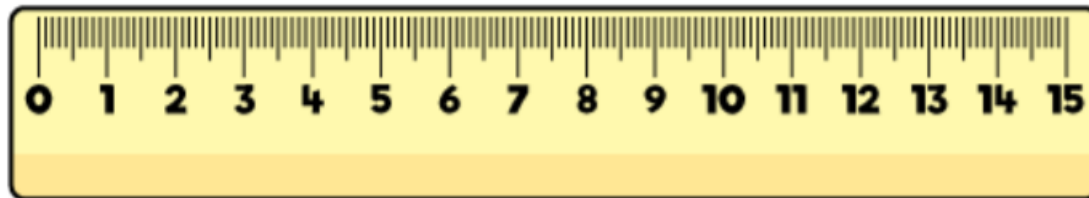
12 cm

8 cm and 5 mm

9 cm and 8 mm

14 cm and 2 mm

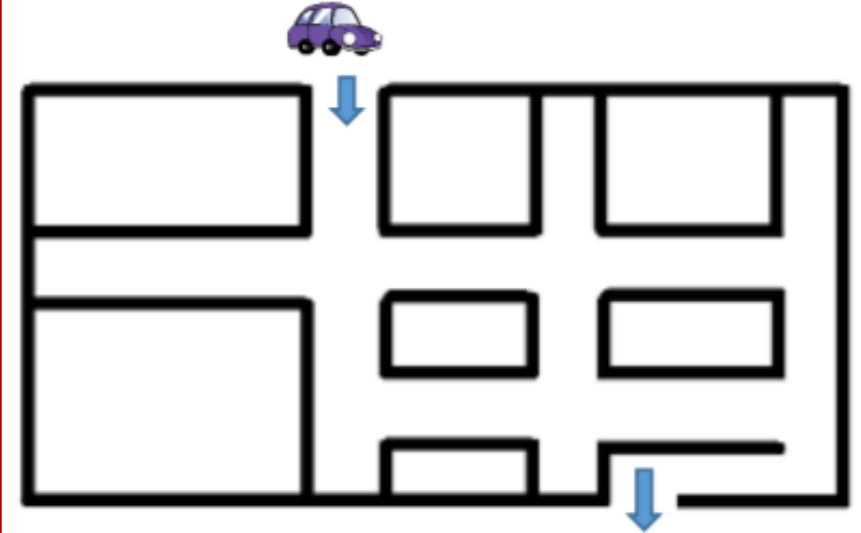
Alex measures the line.



She says it is 10 cm 4 mm

Is Alex correct?

Explain why.



Use straight lines to show the route the car could take to get out of the maze.

Work out the length of the route to the nearest cm

Is this the shortest route?



Well done!

Now it's time to check your work.

Friday 26th June 2020

L.O. I am learning find angles
around me.

Key vocabulary: angles acute right-angle obtuse greater than less than degrees

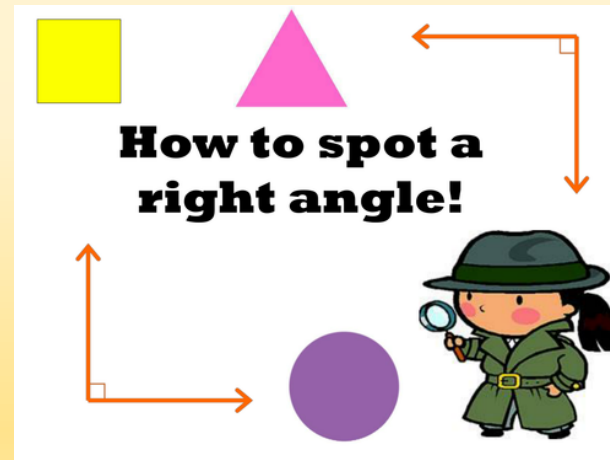
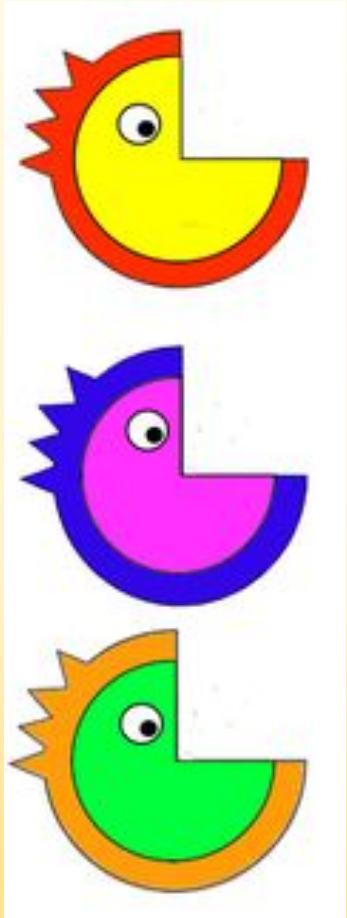
Friday 26th June 2020

L.O. I am learning find angles around me.

Angles are all around us!

Today your challenge is to find angles in familiar places.

We can use a little Pac-Man to help us find angles.

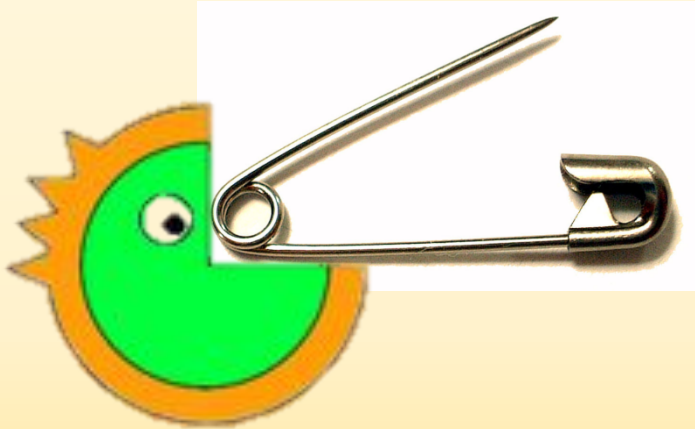


Key vocabulary: angles acute right-angle obtuse greater than less than degrees

Using a Pac-Man, we can tell if an angle is acute, right-angle or obtuse.

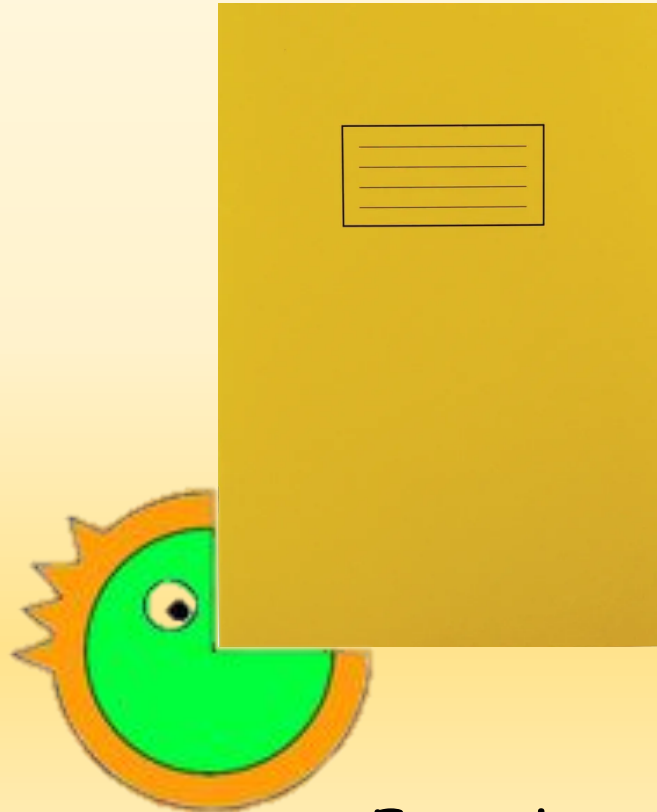
Activity 1: Find 10 different angles around your house using a Pac-Man shaped angle finder.
You can make your own Pac-Man by cutting a right-angle out of any paper.

Acute Angle: The angle is smaller than Pac-Man's mouth.



Example - Safety pin

Right Angle: The angle fits perfectly into Pac-Man's mouth.



Example - A book

Obtuse Angle: The angle is bigger than Pac-Man's mouth.



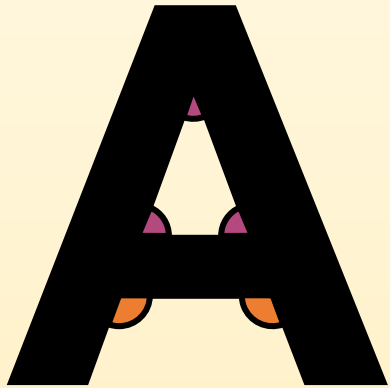
Example - An open laptop

Still using a Pac-Man, we are going to find the angles in your name!

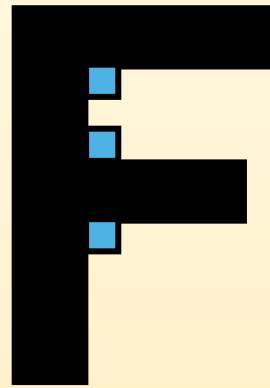
Activity 2: Write your name in capital letters.

Wherever two lines meet, use a colour to label the type of angle you find.

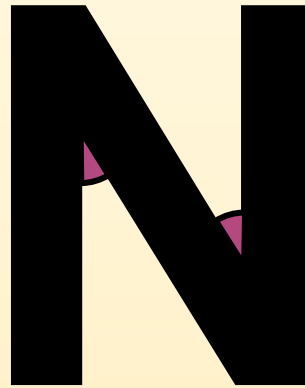
Use your Pac-Man to help you here. Look at the example below...



obtuse and
acute angles



right angles



acute angles

