



W.C. 22nd June

Use these worksheets to work from **and not on**. All you need is a piece of paper, pencil and a ruler. s83year3@st-annes.solihull.sch.uk

After watching the videos and having a go at the practise activities on BBC Bitesize, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Maths

Deeper Learning – You may wish to deepen your learning by looking at time!

Time:

Circle am or pm for each statement.



It is five o'clock in the afternoon.

am

pm

I am eating my breakfast before school.



am

pm

There are 24 hours in a day.

How many hours are in 3 days?

_____ hours

How many days is 120 hours?

_____ days

Extra spicy challenge -

Henry is walking from his house to school.

- The walk is 18 minutes long.
- He arrives at 8 minutes past 8

What time does he leave the house?

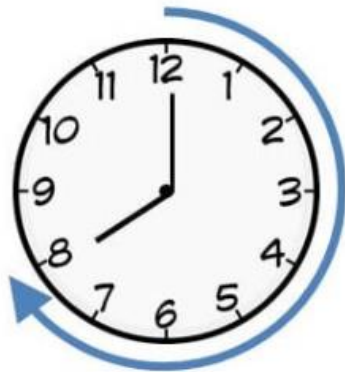
We also have Maths activities on Purple Mash for you!

Monday

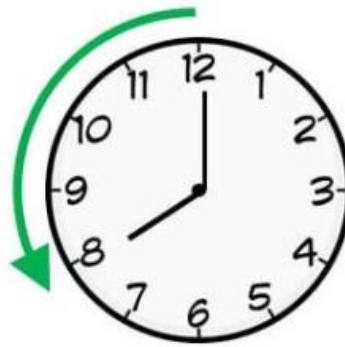
<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

Turns and Angles

Clockwise and Anti-Clockwise



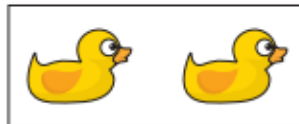
Clockwise



Anti-Clockwise

Mild

1 Match the picture to the turn.

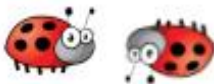


full turn

half turn

quarter turn

Match the turn to the description.



A full turn.



A quarter turn clockwise.



A half turn anticlockwise.

True or False?

Describing Turns

The jelly baby has made a three-quarter turn anti clockwise.

Before turn



After turn



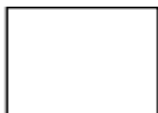
1a. Sally is thinking of a shape.

She says,



The shape has 4 angles and 4 equal sides.

Which shape is she thinking of?

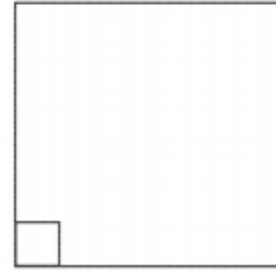


Is It A Right Angle?

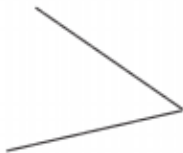
An angle is a measurement of a turn. They can be found where two lines meet.

A right angle is in the corner of a rectangle or square.

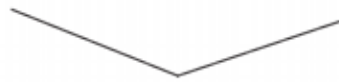
Look at the angles below. Decide whether each one is a right angle, bigger than a right angle or smaller than a right angle. Write down your answer on the line.



1.



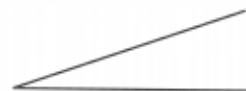
2.



3.



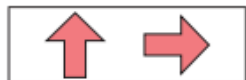
4.



Medium

The arrows are being turned clockwise.

Match the picture to the turn.



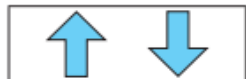
half turn



quarter turn

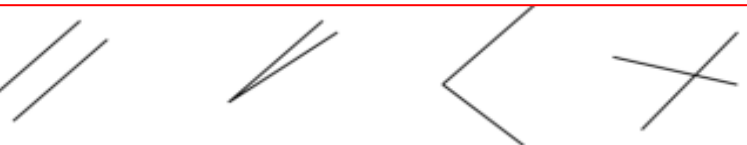


full turn

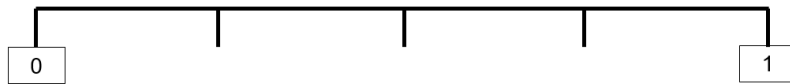
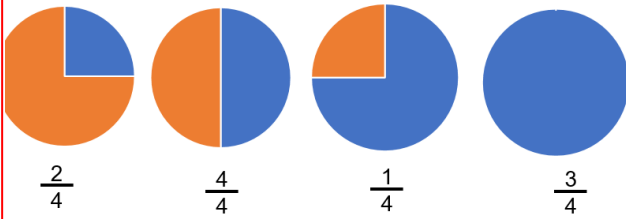


three-quarter turn

I Which pictures show at least one angle?



STARTER: Can you place the images and labels in their right places on the number line?



Success Criteria:

Mastery:

I can recognise angles as a description of turn and know that an angle is created when two straight lines meet at a point.

Greater Depth:

I can use the above to apply reasoning to solve a variety of problems.

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



Spicy

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?



What turn has the minute hand made?

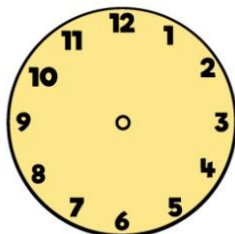
When two straight lines meet at a point, they make an

_____.

True or False?

Turns and angles

A quarter turn clockwise = 15 minutes later



4b. Katie is thinking of a shape.

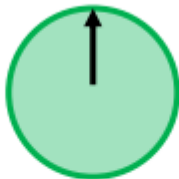
She says,



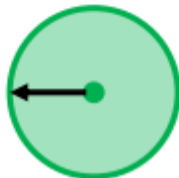
The shape has 4 angles and 4 sides all the same length.

Draw the shape that she is thinking of.

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.

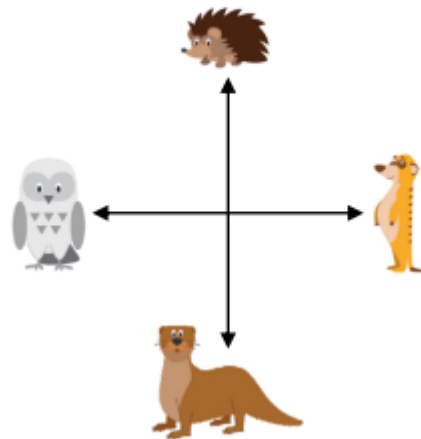
Alex says,



The arrow has moved a three-quarter turn clockwise.

Who do you agree with?

5b. After a three quarter turn clockwise, you are now facing the owl. Which animal were you facing when you started?



PS

Tuesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

Comparing Angles

<https://www.youtube.com/watch?v=HgMYZHBgUxI> - Watch this for a fun way to remember the different types of angles!

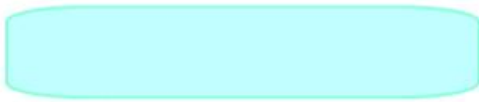
Mild

True or False?

Compare angles

Acute means "less than a right angle".

1 Are there right angles in T?

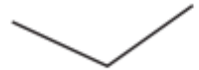


2 Are there right angles in H?



Here are some angles.

a) Which angle is greater than a right angle?



b) Which angle is less than 90 degrees?

















Is it a right angle, an obtuse angle or an acute angle?

Medium

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

a)

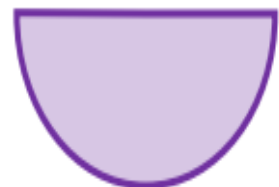


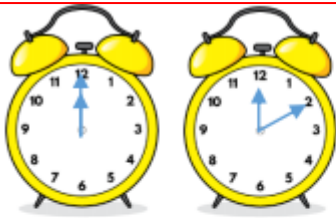
b)



True or False?

This shape has two right-angles.





The angle between the hands is _____ than a right angle.
This is called an _____ angle.



The angle between the hands is _____ than a right angle.
This is called an _____ angle.

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

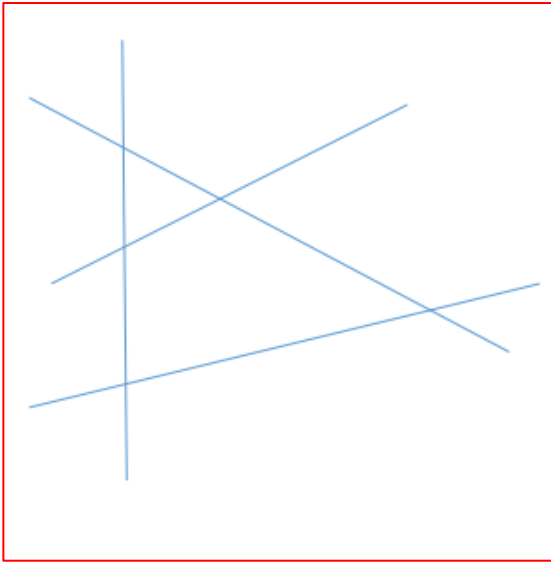
a)

b)

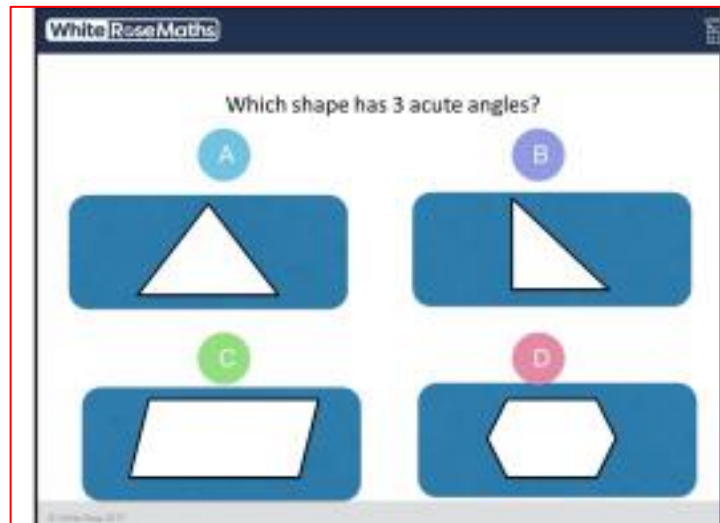
c)

Spicy

Compare the angles with $<$, $>$ or $=$



Can you find as many obtuse and acute angles in this picture?



I start facing the triangle and end facing the rectangle. My friends say:



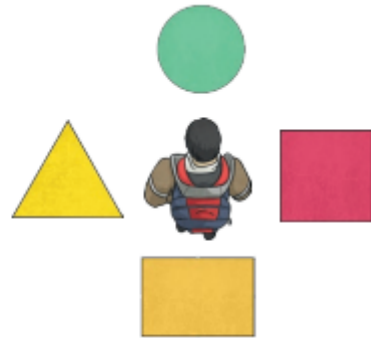
Mira

You must have made a quarter turn anticlockwise.



Ian

You turned a three-quarter turn clockwise.

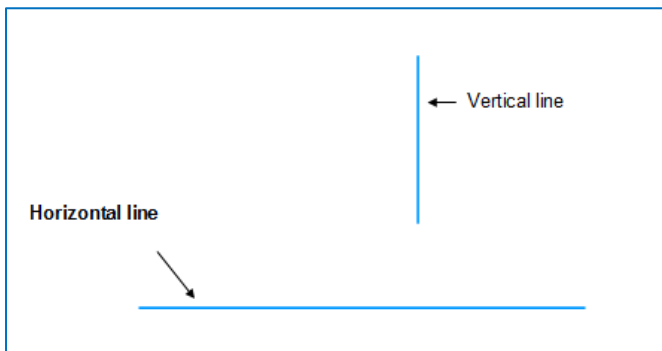


Who do you agree with? _____ Why? _____

Wednesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>



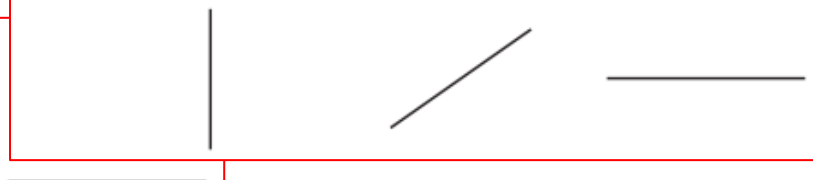
Describing Lines

Mild

1 Which line is horizontal?



2 Which line is vertical?





A line that runs from left to right across the page is called a _____ line.



A line that runs straight up and down the page is called a _____ line.

Find 3 horizontal and 3 vertical lines in the classroom.



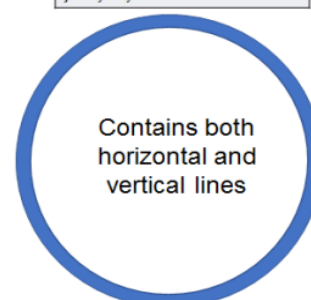
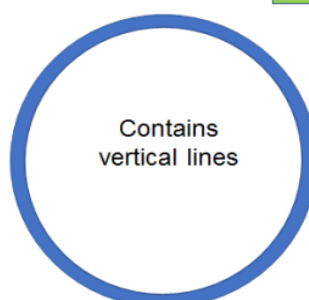
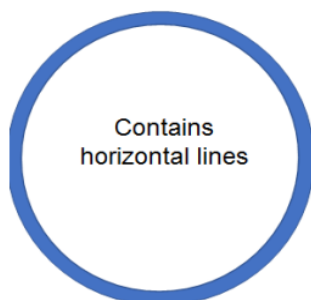
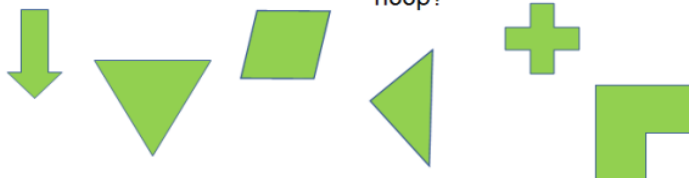
How many horizontal and vertical lines can you find?



Why?

Medium

ACTIVITY 1: Can you sort the shapes into the correct sorting hoop?



Mastery:

I can identify and find horizontal and vertical lines, including lines of symmetry in shapes.

Greater Depth:

I can use the above to apply reasoning to solve a variety of problems. I can explain and justify my decisions.

Here are some flags.

a) Which flags have horizontal stripes?



b) Which flags have vertical stripes?



Is the statement true or false?

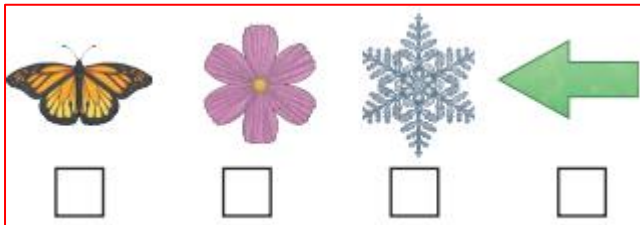
This flag has vertical and horizontal stripes.



How many horizontal lines are in this image?



Spicy

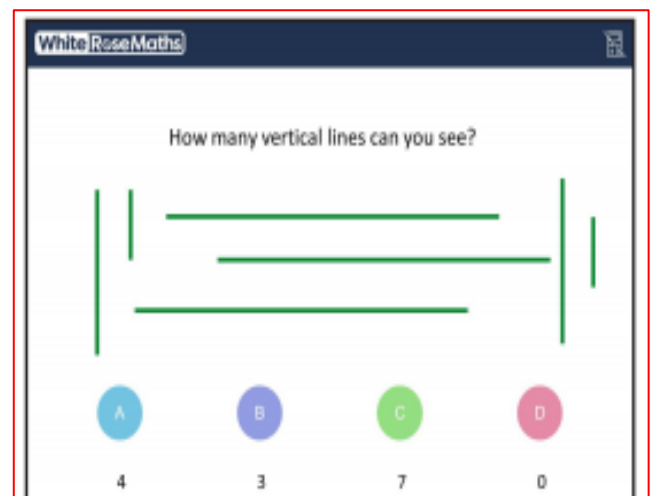


Which shapes have both horizontal and vertical lines of symmetry?

Horizontal line of symmetry	Vertical line of symmetry	Both lines of symmetry

Jade sorts the shapes.

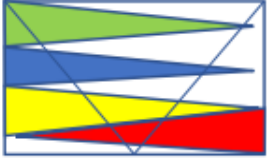
Can you spot and correct her mistake?



Geometry – Properties of Shapes - 3

NC Objective: Identify Horizontal and Vertical Lines and Pairs of Perpendicular and Parallel Lines

Tia and Malachi are counting the horizontal and vertical lines shown on the picture.



Tia: There are 8 horizontal lines.

Malachi: There are 2 vertical lines.

Who is correct? Explain.

Reasoning Maths Hub

Geometry – Properties of Shapes - 3

NC Objective: Identify Horizontal and Vertical Lines and Pairs of Perpendicular and Parallel Lines

Spot and explain the mistake.

Horizontal line of symmetry	Vertical line of symmetry	Both lines of symmetry
		

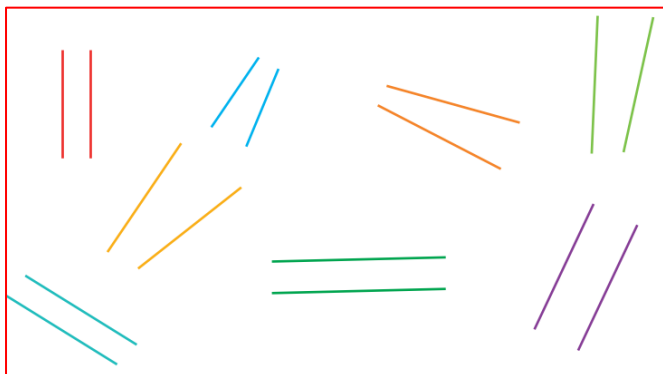
Thursday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

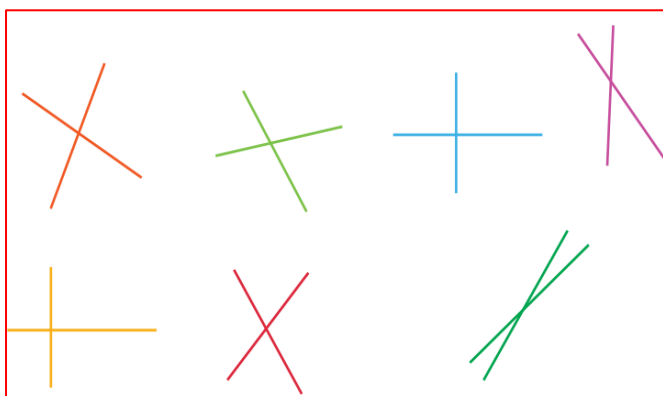
<https://whiterosemaths.com/homelearning/year-3/>

Parallel and Perpendicular

Mild

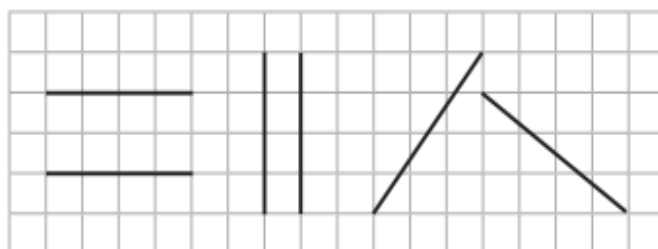


Which lines are parallel?



Which lines are perpendicular?

Which pair of lines is not parallel?





Lines that never meet are called _____ lines.



Straight lines that meet to make a right angle are called _____ lines.

These lines are NOT parallel.



Convince me.

White Rose Maths

Identify the pair of parallel lines.

A

B

C

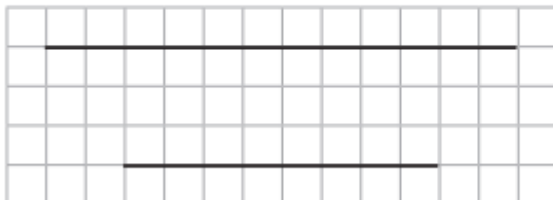
D

Medium

Are these lines parallel, perpendicular or neither?

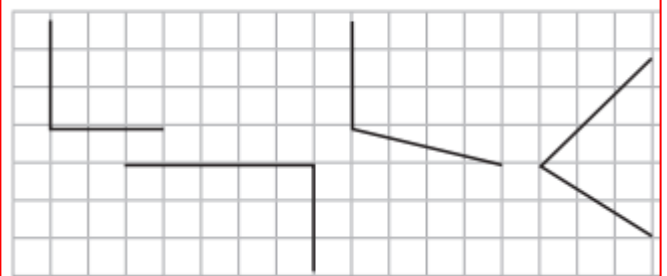
1	2	3
4	5	6

Amir says that the lines are not parallel because they are different lengths.



Is Amir correct?
Why?

Which lines are perpendicular?



NC Objective: Identify Horizontal and Vertical Lines and Pairs of Perpendicular and Parallel Lines



These two lines are perpendicular because they are at right angles to each other.



Do you agree with Zach? Why?

True or False?

Parallel and perpendicular

This shape has perpendicular lines.



Spicy

Look at the shapes below, how many pairs of parallel lines and perpendicular lines can you find?

pairs of parallel lines: _____

pairs of perpendicular

lines: _____



pairs of parallel lines: _____

pairs of perpendicular

lines: _____



pairs of parallel lines: _____

pairs of perpendicular

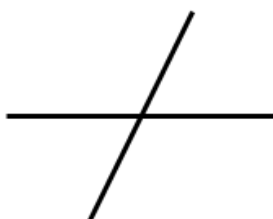
lines: _____



Can you explain why...?

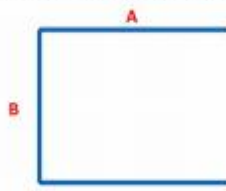


These lines cannot be parallel because.....



These lines cannot be perpendicular because.....

To complete the shape below you need a line that is:



A

B

C

D

Parallel to A

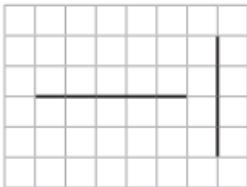
Parallel to C

Perpendicular to B

Parallel to B

Alex has drawn some lines on grids.

a)



The lines are not perpendicular because they don't meet.



Do you agree with Alex?

b)



The lines are parallel because they don't meet.



Do you agree with Alex?

Are these statements true or false? Why?

- a) You will never see a pair of parallel lines on any triangle.
- b) You will never see perpendicular lines on any triangle.

Friday

Times Table Rockstars



Times Table Rock Star Battle- Mrs Shaughnessy has organised a "battle" between each class in our year group. The start date is today and the finishing date is next Sunday 21st June so the results will be published that week on twitter. Get battling and let's see who wins!!!

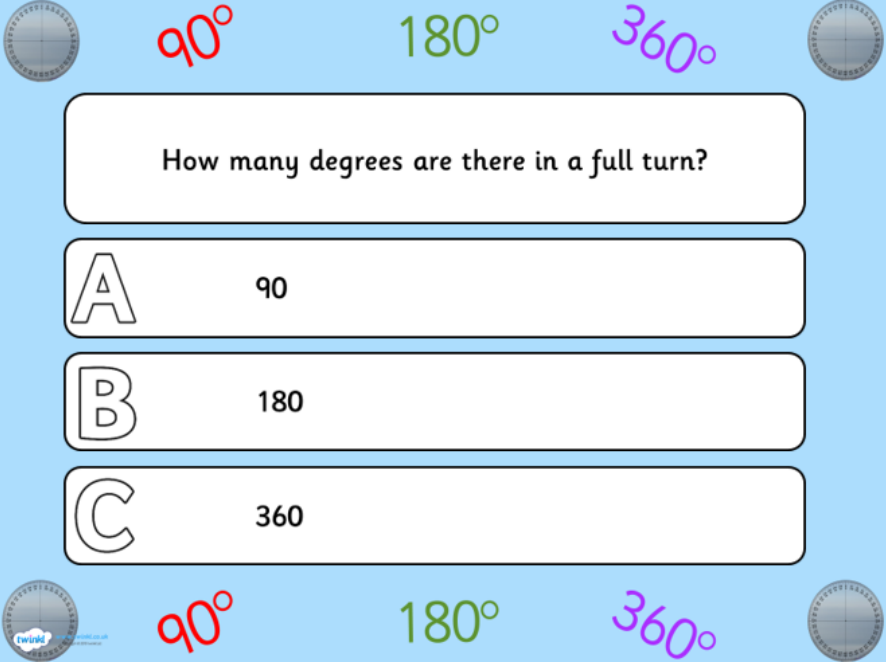


Acute and Obtuse angles

Purple Mash - Have a go at the angles quiz and see how well you do!

Quiz!

1.



90° 180° 360°

How many degrees are there in a full turn?

A 90

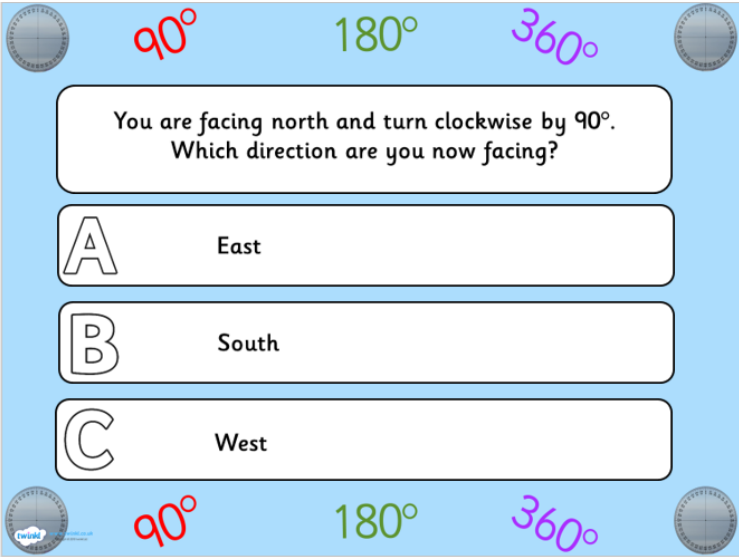
B 180

C 360

90° 180° 360°

This quiz card has a light blue background with a silver compass rose in each corner. At the top, the angles 90°, 180°, and 360° are written in red, green, and purple respectively. The question is in a white box. Below are three answer options in white boxes, each with a letter in a large outline on the left.

2.



90° 180° 360°

You are facing north and turn clockwise by 90°. Which direction are you now facing?

A East

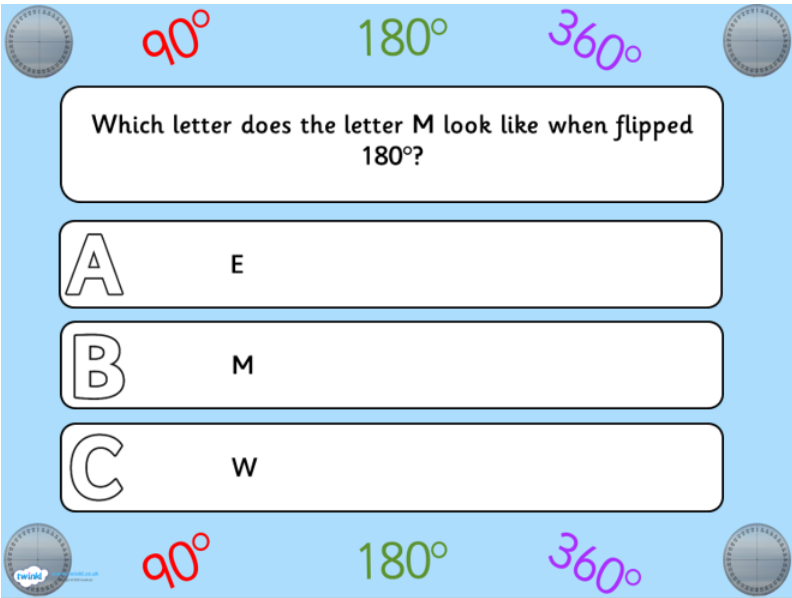
B South

C West

90° 180° 360°

This quiz card has a light blue background with a silver compass rose in each corner. At the top, the angles 90°, 180°, and 360° are written in red, green, and purple respectively. The question is in a white box. Below are three answer options in white boxes, each with a letter in a large outline on the left.

3.



90° 180° 360°

Which letter does the letter M look like when flipped 180°?

A E

B M

C W

90° 180° 360°

This quiz card has a light blue background with a silver compass rose in each corner. At the top, the angles 90°, 180°, and 360° are written in red, green, and purple respectively. The question is in a white box. Below are three answer options in white boxes, each with a letter in a large outline on the left.

4.

90° 180° 360°

What is the name of an angle that is less than 90°?

A Acute

B Obtuse

C Reflex

90° 180° 360°

5.

90° 180° 360°

Do parallel lines ever cross?

A Yes

B No

C It depends how they are drawn

90° 180° 360°

6.

90° 180° 360°

Are train tracks parallel or perpendicular?

A Parallel

B Perpendicular

C Neither

90° 180° 360°