



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?

72

hours

How many days is 120 hours?

5

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?

7:50 am

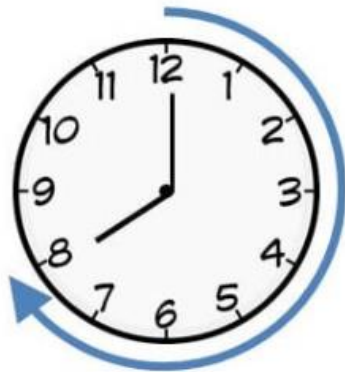
We also have Maths activities on Purple Mash for you!

Monday

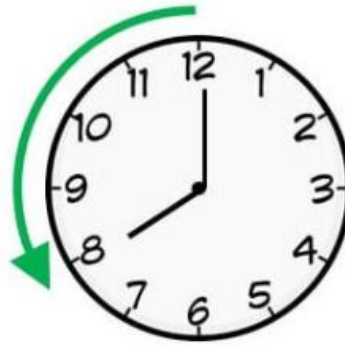
<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

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?



PS

True or False?

Describing turns

True

It could also have made a quarter turn clockwise.

Before turn



Quarter turn anticlockwise

Half turn anticlockwise



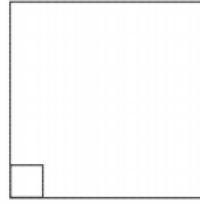
Three-quarter turn anticlockwise

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. _____

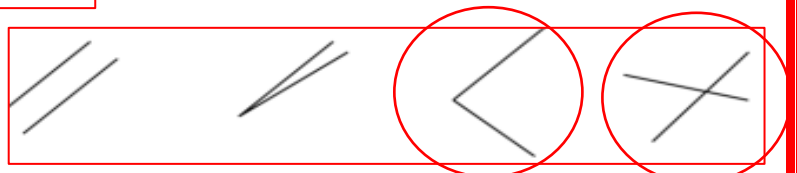
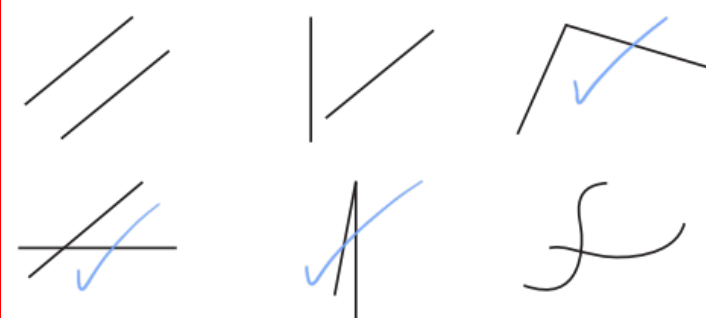
1. Smaller than a right angle
2. Bigger than a right angle
3. Right angle
4. Smaller than a right angle

Medium

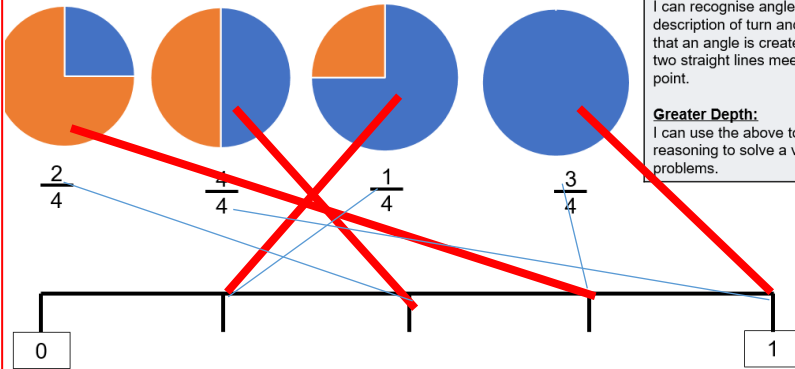
Match the picture to the turn.

		half turn
		quarter turn
		full turn
		three-quarter turn

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



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



Brett is correct

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

The minute hand/larger hand would be pointing to the 3 (quarter past). It would now be quarter past 10.

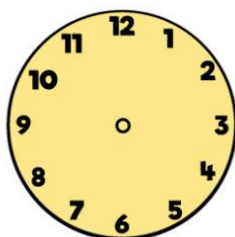
It has turned by 30 minutes (half an hour).

angle

True or False?

Turns and angles

A quarter turn clockwise = 15 minutes later



True or False?

Turns and angles

True

A quarter turn clockwise = 15 minutes later.

Clockwise means in the direction that the hands of a clock move.

4b. Katie is thinking of a shape.

She says,



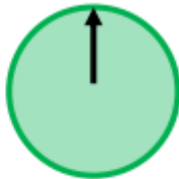
The shape has 4 angles and 4 sides all the same length.

Draw the shape that she is thinking of.

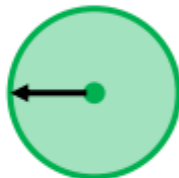
Square



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.

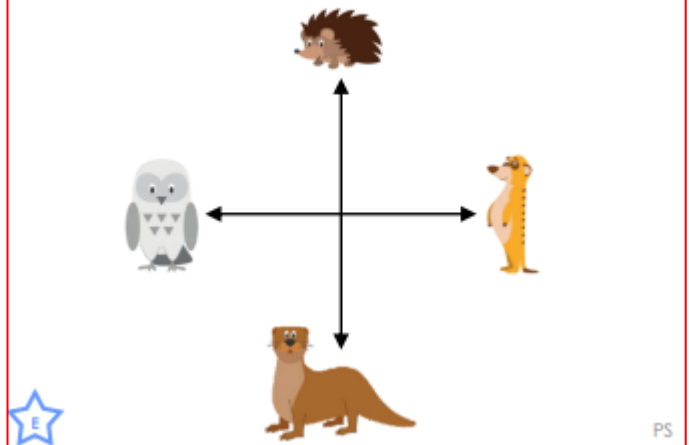
Alex says,



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?



Hedgehog

Both children are correct.

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".

True - Acute means "less than a right angle" because a right angle is 90° . An acute angle is less than 90° .

1 Are there right angles in T?



There are 2 right angles in T.

2 Are there right angles in H?



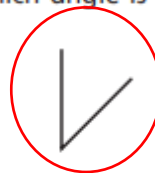
There are 4 right angles in H.

Here are some angles.

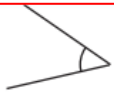
a) Which angle is greater than a right angle?



b) Which angle is less than 90 degrees?



1.



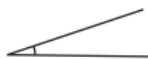
2.



3.



4.



5.



6.



7.



8.



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

1. Acute
2. Obtuse
3. Right angle
4. Acute
5. Acute
6. Obtuse
7. Right angle
8. Acute

Medium

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

a)



b)



a - acute b - obtuse



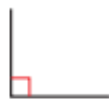
The angle between the hands is
smaller than a right angle.
This is called an **acute** angle.



The angle between the hands is
bigger than a right angle.
This is called an **obtuse** angle.

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

a)



b)



c)



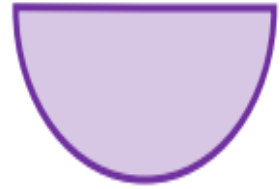
A - $<$

B - $<$

C - $=$

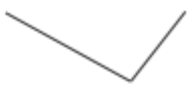
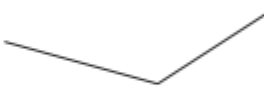
True or False?

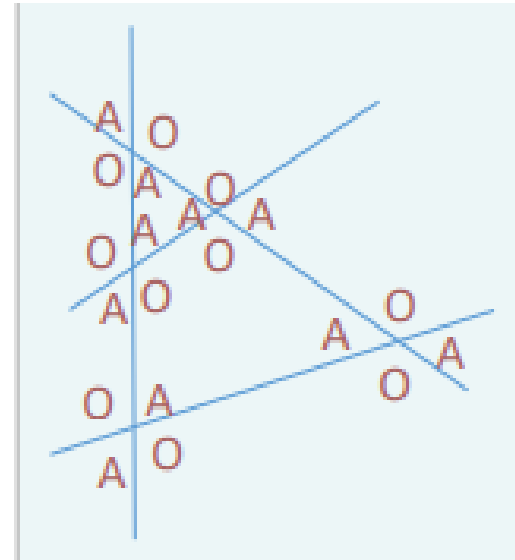
This shape has two right-angles.



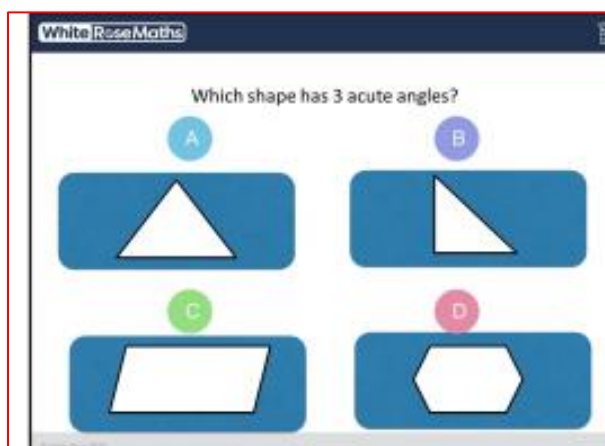
False

Spicy

		
<		
		
=		
		
>		
		
<		
		
<		



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



A

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



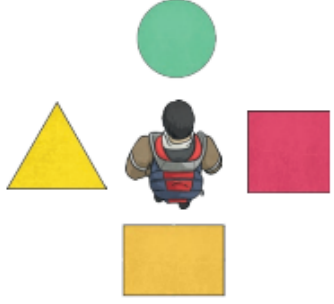
Mira

You must have made a quarter turn anticlockwise.



Ian

You turned a three-quarter turn clockwise.



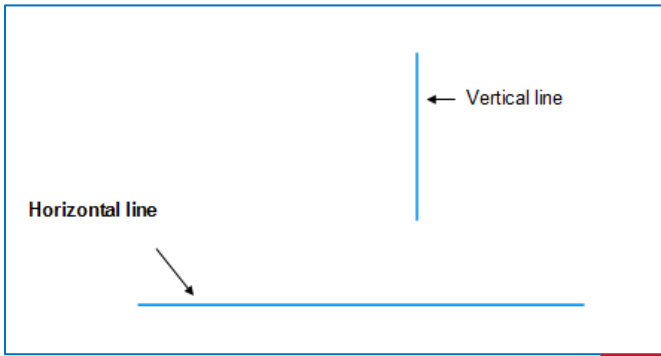
Who do you agree with? _____ Why? _____

I agree with both of them. They are both correct.

Wednesday

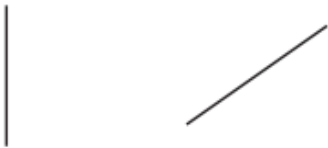
<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

Describing Lines

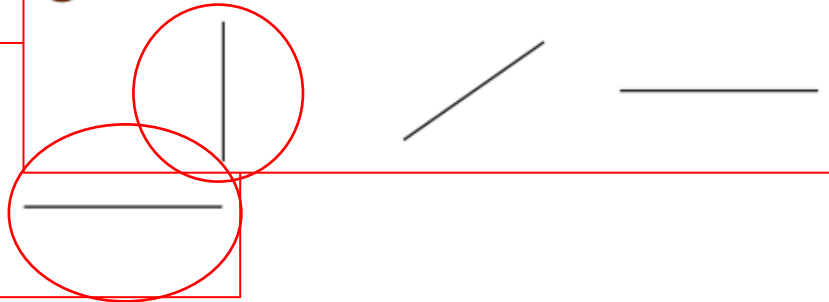


Mild

1 Which line is horizontal?



2 Which line is vertical?



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



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

Find 3 horizontal and 3 vertical lines in the classroom.



How many horizontal and vertical lines can you find?

3 horizontal

3 vertical



They have been placed in a vertical line because it is up and down.

Medium

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

Contains horizontal lines

Contains vertical lines

Contains both horizontal and vertical lines

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.



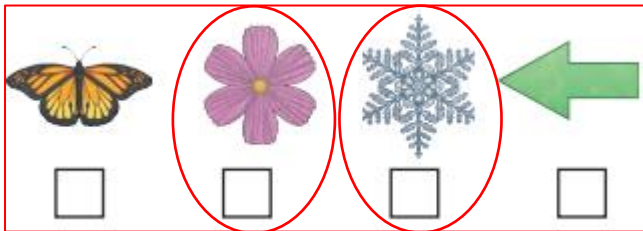
False

How many horizontal lines are in this image?



11

Spicy

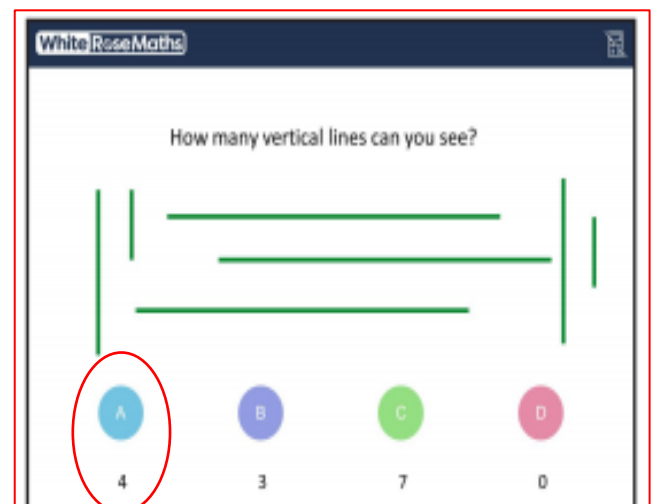


Which shapes have both horizontal and vertical lines of symmetry?

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

Jade sorts the shapes.

Can you spot and correct her mistake?



Jack thinks the star has both lines of symmetry, but it only has a vertical line of symmetry.

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.

Malachi is correct because there are only two vertical lines on the sides.

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

The star has a horizontal and a vertical line of symmetry.

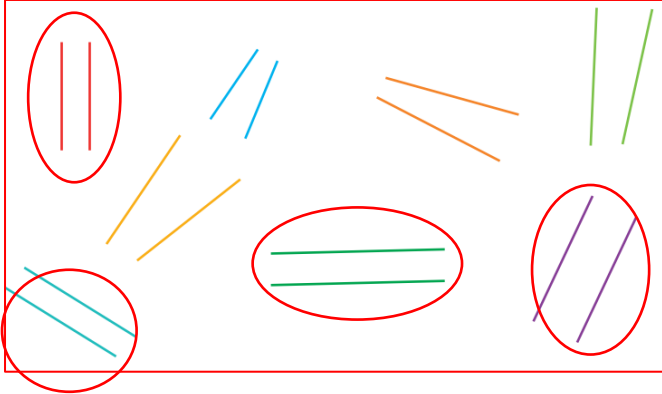
Thursday

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

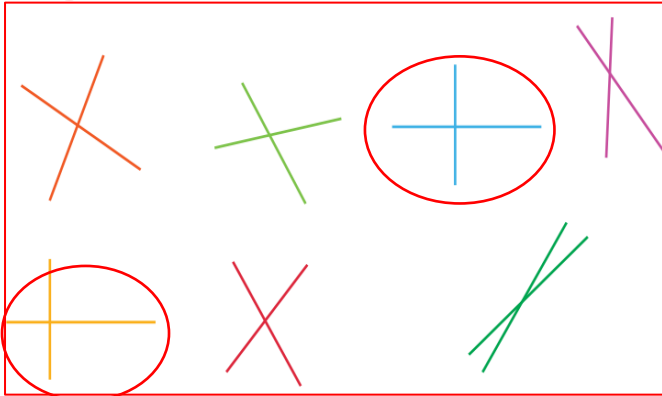
<https://whiterosemaths.com/homelearning/year-3/>

Parallel and Perpendicular

Mild

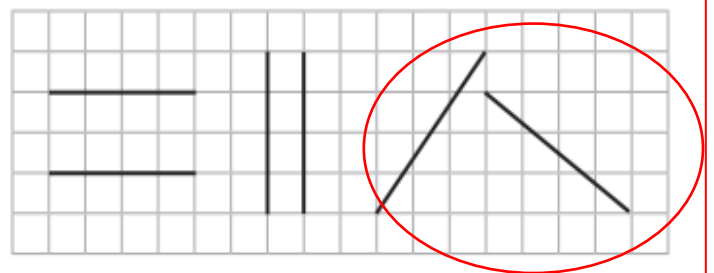


Which lines are parallel?



Which lines are perpendicular?

Which pair of lines is not parallel?



Lines that never meet are called **parallel** lines.



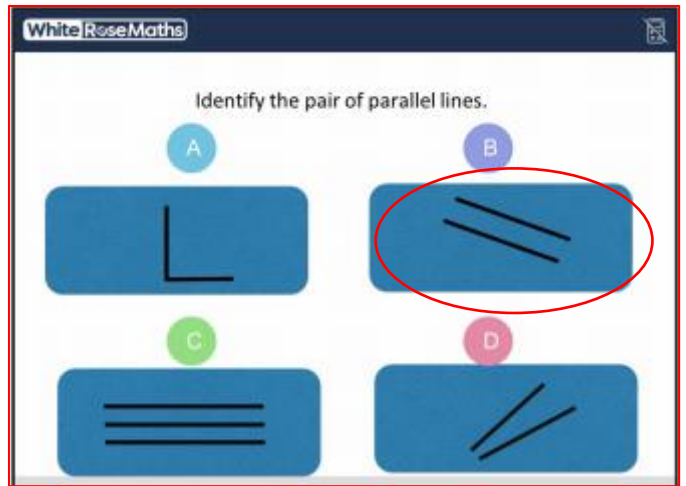
Straight lines that meet to make a right angle are called **perpendicular** lines.

These lines are NOT parallel.



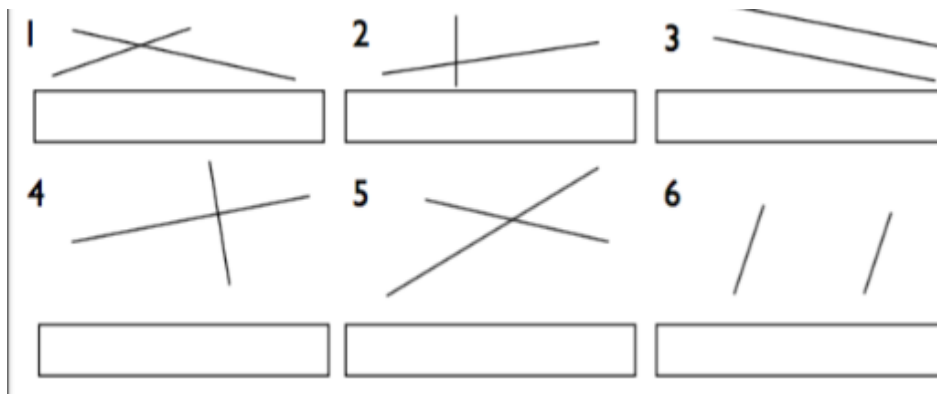
Convince me.

The lines will eventually meet so they are not parallel.



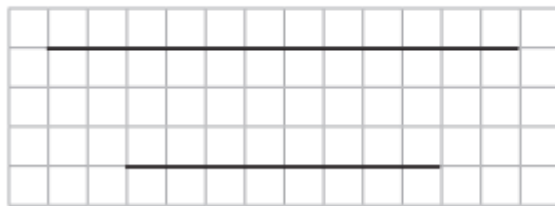
Medium

Are these lines parallel, perpendicular or neither?



1. Neither
2. Neither
3. Parallel
4. Perpendicular
5. Neither
6. Parallel

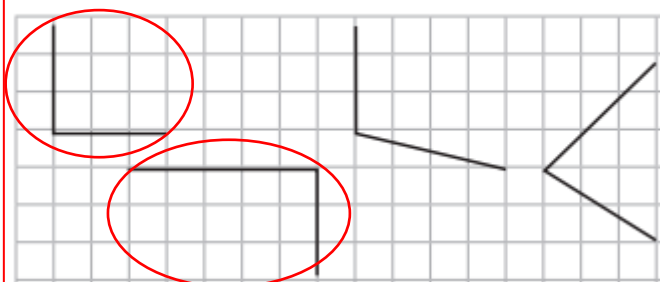
Amir says that the lines are not parallel because they are different lengths.



Is Amir correct?
Why?

He is incorrect because **Parallel lines** are lines which are always the same distance apart and never meet.

Which lines are perpendicular?





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



Do you agree with Zach? Why?

I disagree with Zach because perpendicular lines need to intersect/join together to make a right angle.

True or False?

Parallel and perpendicular

This shape has perpendicular lines.

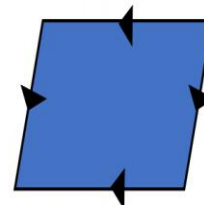


True or False?

Parallel and perpendicular

False

This shape has no perpendicular lines.
It has 2 sets of parallel 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: _____



pairs of parallel lines: 0

pairs of perpendicular lines: 1



pairs of parallel lines: 2

pairs of perpendicular lines: 4



pairs of parallel lines: 6

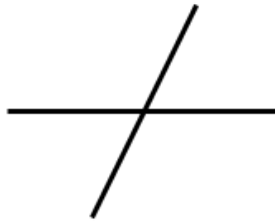
pairs of perpendicular lines: 6



Can you explain why...?



These lines cannot be parallel because.....



These lines cannot be perpendicular because.....

These lines cannot be parallel because they do not stay the same distance apart.

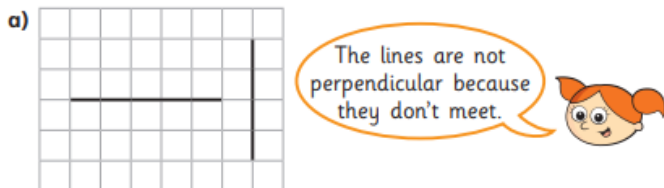
These lines cannot be perpendicular because they do not make a right angle.

White Rose Maths

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

☐ A Parallel to A ☐ B Parallel to C ☐ C Perpendicular to B ☒ D Parallel to B

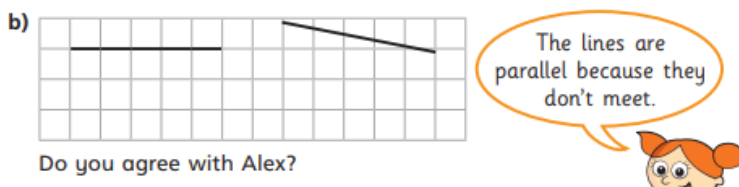
Alex has drawn some lines on grids.



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



Do you agree with Alex?



The lines are parallel because they don't meet.



Do you agree with Alex?

A - Alex is correct because perpendicular lines need to meet.

B - I disagree with Alex because parallel lines do not meet. The lines are not parallel because they are not the same distance apart.

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.

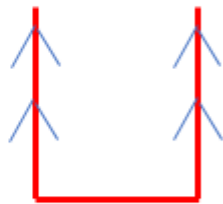
Explanation on next page

EVALUATION: Are these statements true or false? Why?

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

THIS IS TRUE.

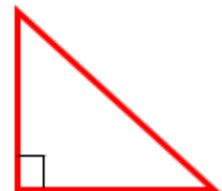
No triangle can ever have two sides that will never meet.
You would have an open shape that looked something like this.



b) You will never see perpendicular lines on any triangle.

THIS IS FALSE.

A right-angled isosceles triangle has perpendicular lines.



Success Criteria

Mastery:

I can identify and find and perpendicular lines. I can also use the correct images.

Greater Depth:

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



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 - Answers

1. 360
2. East
3. W
4. Acute
5. No
6. Parallel

