

Day 1Fab four!

1.) $101,500 + 12,324 =$

2.) $5^2 =$

3.) $0.7\overline{5}$ of £200 =

4.) 0.25 as a % =

.

Day 2Fab four!

1.) $455,600 + 12,784 =$

2.) $4^2 =$

3.) 0.2 of £200 =

4.) 0.3 as a % =

Day 3Fab four!

1.) $455,600 + 12,784 =$

2.) $3^3 =$

3.) 0.25 of £400 =

4.) 0.8 as a % =

Day 4**Fab four!**

1.) $1\,250,500 + 5,886 =$

2.) $9^2 - 41 =$

3.) $0.6 \text{ of } £220 =$

4.) $0.72 \text{ as a } \% =$

Day 3Fab four!

1.) $650,500 + 25,881 =$

2.) $10^2 =$

3.) $0.4 \text{ of } £120 =$

4.) $0.7 \text{ as a } \% =$

Day 4Fab four!

1.) $850,595 + 5,221 =$

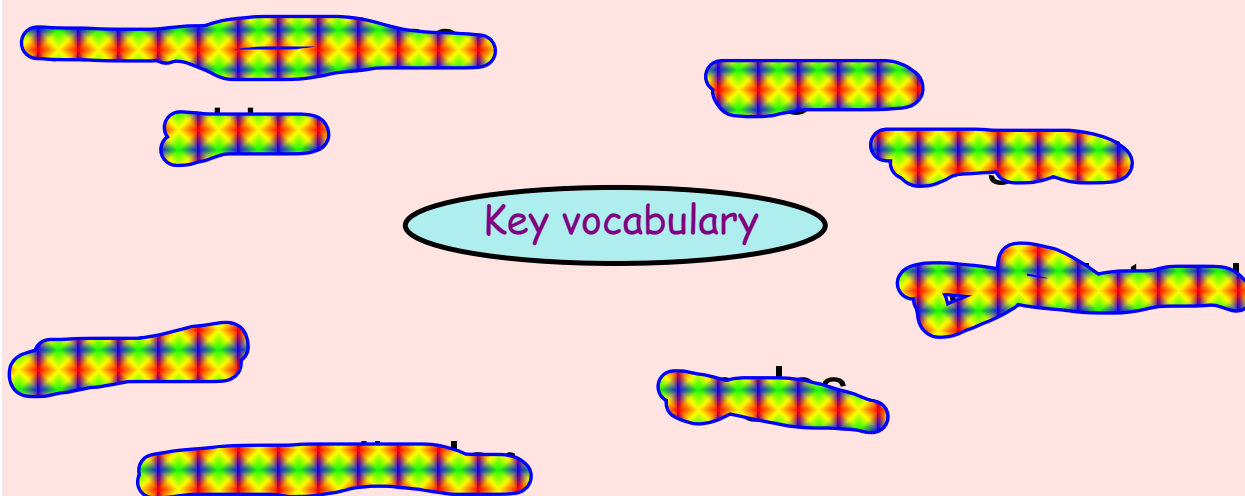
2.) $4^2 + (4 \times 3) =$

3.) 0.45 of $\pounds 120 =$

4.) 0.05 as a $\% =$

Inset day 4.1.21

LO:I can identify 2D shapes and their properties.



LO:I can identify 2D shapes and their properties.

corners/vertices

sides

regular

irregular

Key vocabulary

quadrilateral

parallel

angles

perpendicular

LO: I can identify 2D shapes and their properties.

What do we know about types of angles?

Names of Angles

As the Angle Increases, the Name Changes:

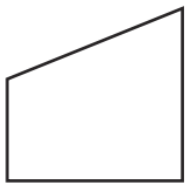


Type of Angle	Description
Acute Angle	is less than 90°
Right Angle	is 90° exactly
Obtuse Angle	is greater than 90° but less than 180°
Straight Angle	is 180° exactly
Reflex Angle	is greater than 180°
Full Rotation	is 360° exactly

LO:I can identify 2D shapes and their properties.



What are the properties of an equilateral triangle?



What are the properties of a quadrilateral?

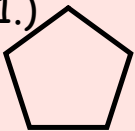
Now choose your own shape, draw and describe its properties using mathematical vocabulary.

LO:I can identify 2D shapes and their properties.

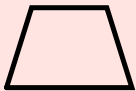
Mild

Name and describe the properties of these shapes then do 2 of our own.

1.)



2.)



Spicy/Hot-Answer the questions on your sheet and show any working out in your book.

LO:I can measure angles accurately.

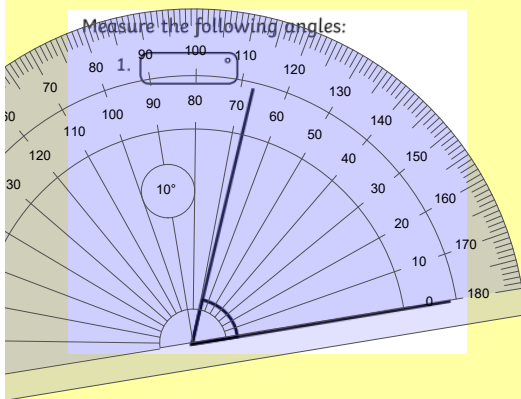
Which vocabulary will we need to use today?

Key vocabulary

LO:I can measure angles accurately.

What unit of measure do we use for angles?

What would we estimate this angle to measure?

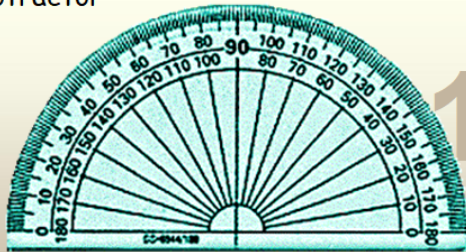


How do we use a protractor?

LO:I can measure angles accurately.

What do we use to help us?

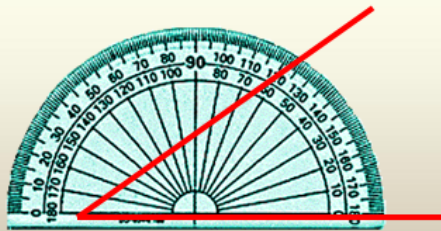
A protractor



Here is a standard protractor like you use in the classroom.

LO: I can measure angles accurately.

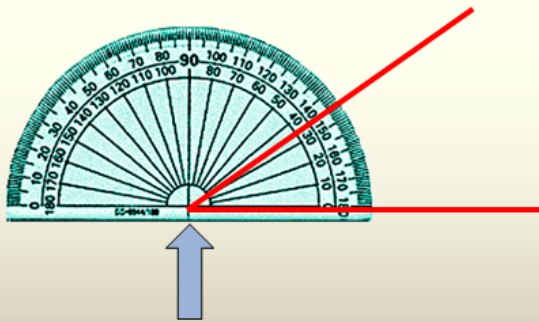
When we use a protractor, we need to line it up correctly.



You need to make sure the protractor is lined up correctly.
Is this ready to measure the angle?

LO:I can measure angles accurately.

Were you right.....it wasn't

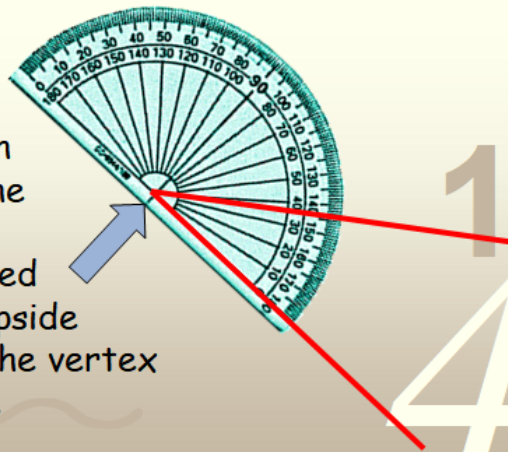


Look for the upside down 'T' in the middle of the straight line on your protractor. This needs to be exactly on the vertex of your angle.

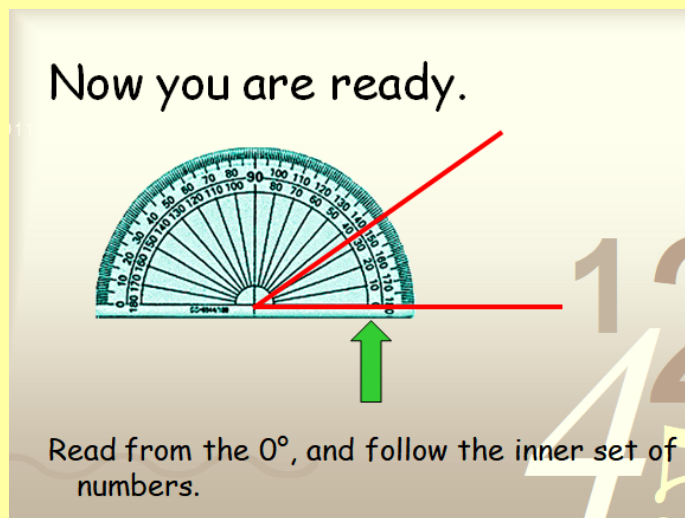
LO: I can measure angles accurately.

We need to remember.....

It doesn't matter which way round the angle is, you ALWAYS need to line the upside down 'T' to the vertex of the angle.

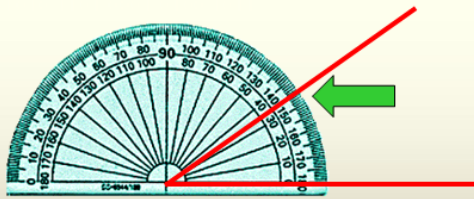


LO:I can measure angles accurately.



LO: I can measure angles accurately.

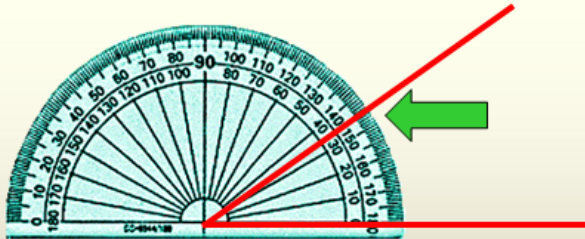
Once you reach 30° you need to be careful!!!



You then need to look at the 1° markings on the outer set of numbers.

LO: I can measure angles accurately.

What does it measure?



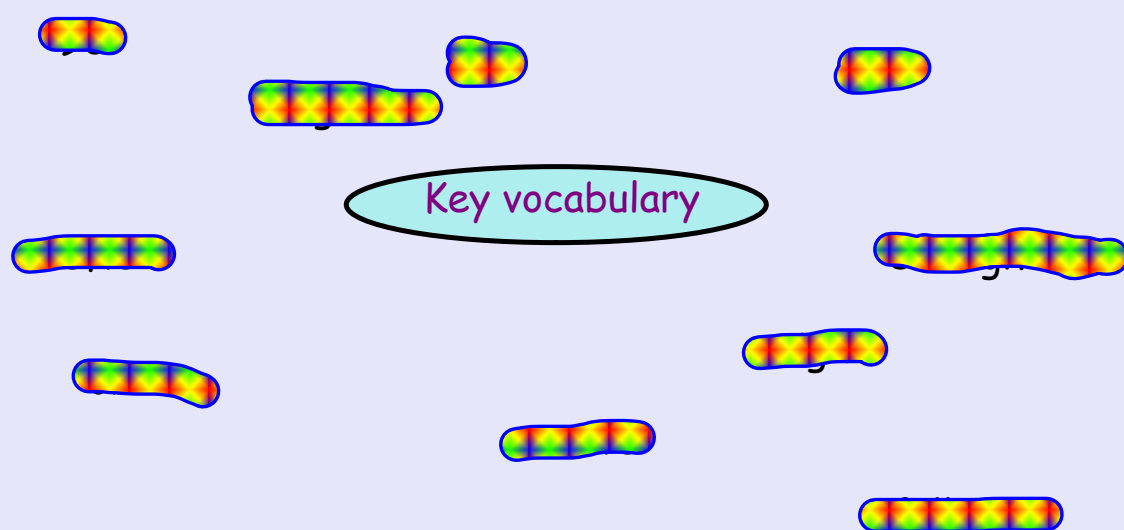
This angle measures 35° .

LO:I can measure angles accurately.

Use this link (on task list too) to try measuring angles with a protractor. You can choose how spicy to make it.

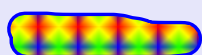
 <https://www.math10.com/en/math-games/games/geometry/games-geometry.html>

LO:I can estimate and calculate angles accurately.



LO:I can estimate and calculate angles accurately.

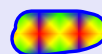
90



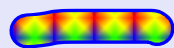
degrees



180

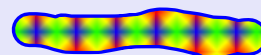


360

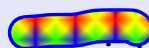


reflex

Key vocabulary

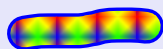
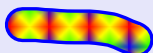


straight line

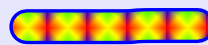


right

obtuse

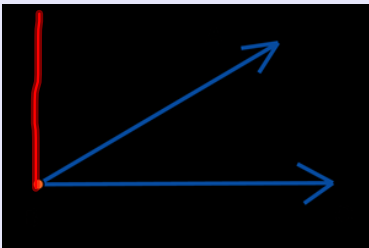


acute



full turn

LO:I can estimate and calculate angles accurately.



What would we estimate this angle to be?

How do we know?

How can we check exactly?

LO:I can estimate and calculate angles accurately.

What key facts do we know about angles?

Angles on a straight line **always** add up to 180 degrees.

Angles around a point **always** add up to 360 degrees.

LO: I can estimate and calculate angles accurately.

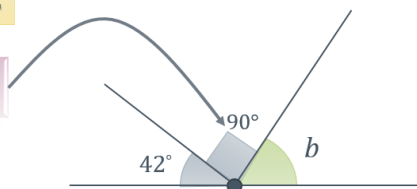
Today we are going to apply this knowledge to solve some problems on calculating angles.

Angles on a straight line **always** add up to 180 degrees.
Angles around a point **always** add up to 360 degrees.

Example 1:

Calculate the size of angle of b .

This symbol is
a right angle



There are 180° on a straight line

$$90 + 42 =$$

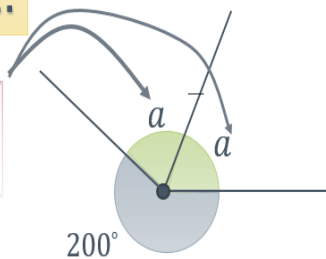
$$180 - ? = b$$

LO: I can estimate and calculate angles accurately.

Example 2:

Calculate the value of a .

Angles with the same letter are the same size.



There are 360° in a full turn at a point

Angles on a straight line **always** add up to 180 degrees.

Angles around a point **always** add up to 360 degrees.

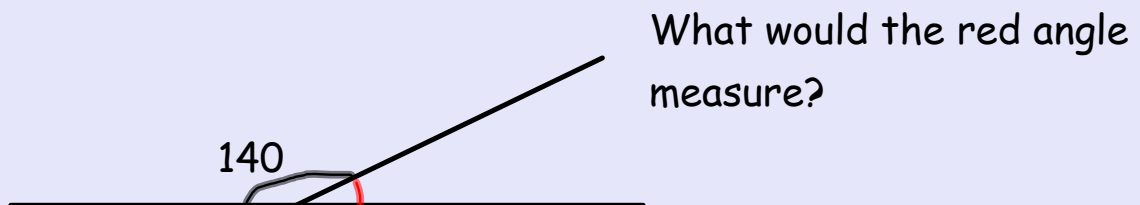
$$360 - 200 = 2a$$

$$2a \text{ divided by } 2 = a$$

LO: I can estimate and calculate angles accurately.

Angles on a straight line **always** add up to 180 degrees.

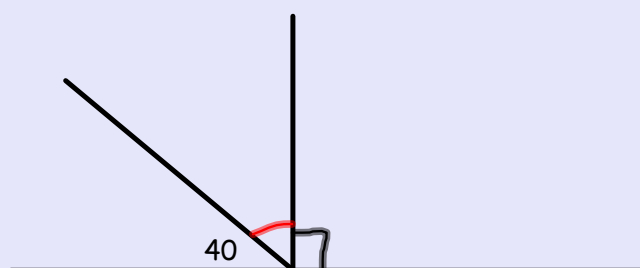
Angles around a point **always** add up to 360 degrees.



LO: I can estimate and calculate angles accurately.

Angles on a straight line **always** add up to 180 degrees.

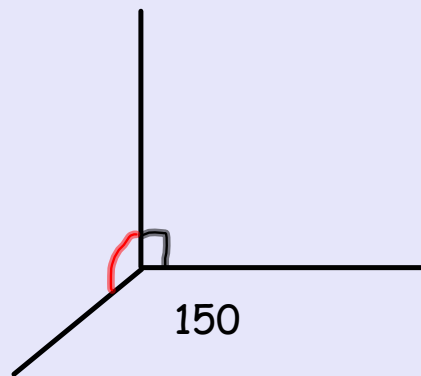
Angles around a point **always** add up to 360 degrees.



LO:I can estimate and calculate angles accurately.

Angles on a straight line **always** add up to 180 degrees.

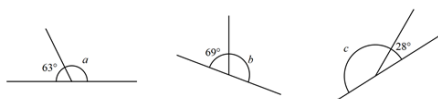
Angles around a point **always** add up to 360 degrees.



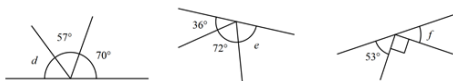
LO: I can estimate and calculate angles accurately.

EXERCISE 1: ANGLES ON A STRAIGHT LINE

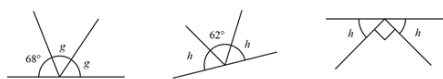
SECTION A: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



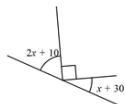
SECTION B: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



SECTION C: FIND THE MISSING ANGLES AND JUSTIFY YOUR ANSWERS



PROBLEM SOLVING: FIND THE VALUE OF x AND JUSTIFY YOUR ANSWER



Angles on a straight line **always** add up to 180 degrees.

Angles around a point **always** add up to 360 degrees.

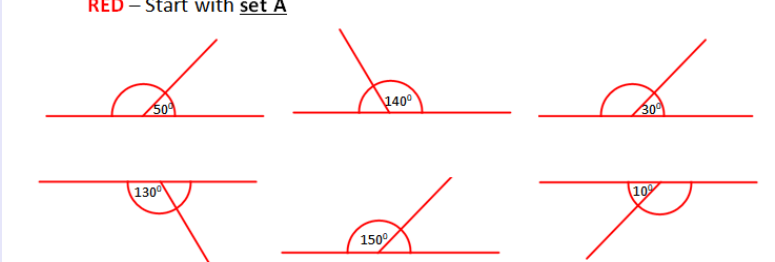
Complete the calculations on your sheet.

Show all your working out in your book and ensure your answer is clear.

LO:I can estimate and calculate anales accurately.

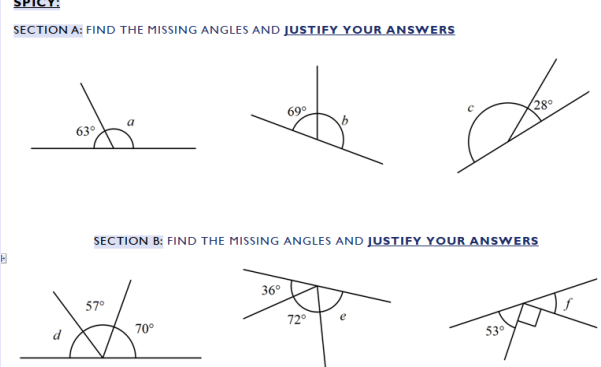
Mild

RED – Start with set A



SPICY:

SECTION A: FIND THE MISSING ANGLES AND **JUSTIFY YOUR ANSWERS**



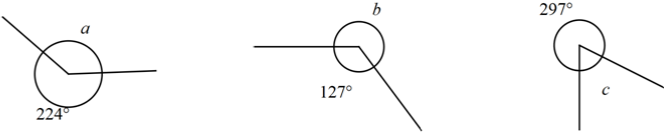
SECTION B: FIND THE MISSING ANGLES AND **JUSTIFY YOUR ANSWERS**

Spicy

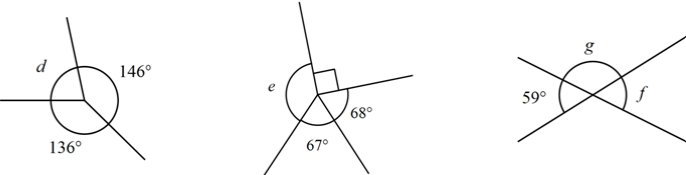
LO:I can estimate and calculate angles accurately.

Hot

HOT: SECTION A: FIND THE MISSING ANGLES AND **JUSTIFY YOUR ANSWERS**



SECTION B: FIND THE MISSING ANGLES AND **JUSTIFY YOUR ANSWERS**



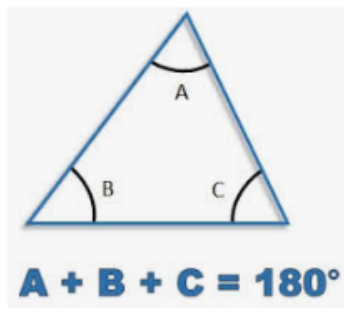
LO:I can estimate and calculate angles accurately.

What facts do we know about angles?

What do you know about angles inside a triangle?

LO: I can estimate and calculate angles accurately.

What do you know about angles inside a triangle?



Angles inside a triangle always add up to 180 degrees.

LO:I can estimate and calculate angles accurately.

Go to this website (also listed on your learning from home task list)

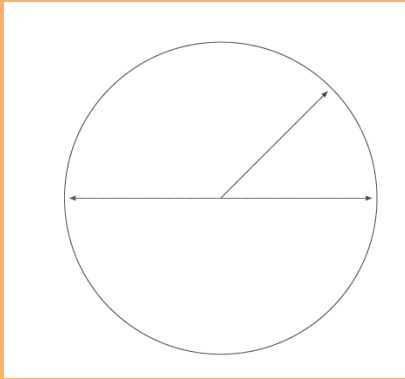
Watch both videos, read the examples and complete the quizzes.

<https://www.bbc.co.uk/bitesize/articles/z8twr2p>



LO: I can identify parts of a circle.

Today we are learning about parts of a circle and the relationship between them.



Do we know what these parts are called?

LO:I can identify parts of a circle.

We are going to draw and label the key parts of a circle. First draw a circle, (you can draw around something) in the middle of your page.

Draw with a ruler (if needed) these parts and label neatly:

circumference

radius

diameter

Now write an explanation for the relationship between the radius and the diameter.

LO:I can identify parts of a circle.Mild

- 1.) A circle has a radius of 50cm. What is the diameter?
- 2.) A DVD has a radius of 6cm, what is the diameter?
- 3.) A glass has a diameter of 8cm, what is the radius?

Spicy

- 1.) A bike wheel has a diameter of 70cm, what is the radius?
- 2.) Mary draws a circle.-its radius is 5cm. Janet draws a circle with a radius 3x as big. What is the diameter of Janet's circle?
- 3.) Kate makes a banner using 28 identical paper circles. each one has a radius of 6cm. She sticks them in a line with no gaps between. How long is her banner?