

Monday 27.4.20

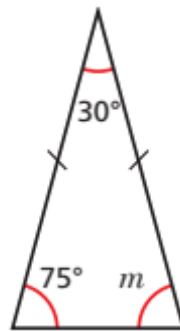


These lines indicate that the two angles

are opposite angles.

This means that they will be the same size angle.

Monday 27.4.20



Here is a triangle.

Q1 What kind of triangle is it? How do you know?

Q2 Work out the size of angle m .

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Q3

Complete the sentence to describe the angles in this type of triangle:

In an _____ triangle the angles...

Monday 27.4.20

Q4

Your knowledge of triangles that you learnt last week should help with this question.

Are these statements true or false?

Every isosceles triangle is equilateral

Every equilateral triangle is an isosceles

A right-angled triangle can be equilateral

A right-angles triangle can be an isosceles

Tuesday 28.4.20

Q1

Two angles in a triangle are 43° and 74°

Is the triangle isosceles? Show your working out.

Tuesday 28.4.20

Q2

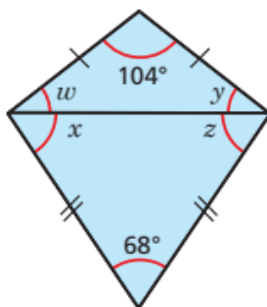
One angle in an isosceles triangle is 29° . What could the other angle be? Give two possible answers.

Tuesday 28.4.20

Q3

Two isosceles triangles are joined together to form a kite. Work out the size of the unknown angles.

(Think about opposite angles and the properties of an isosceles to help you.)



W =

X =

Y =

Z =

Tuesday 28.4.20

Q4

Teddy is drawing a quadrilateral.

My quadrilateral has exactly three right-angles.



Is Teddy's quadrilateral possible?

Explain your answer.

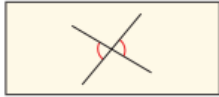
Wednesday 29.4.20

Q1

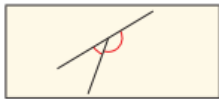
Match each diagram to the correct rule



Angles on a straight line sum to 180°



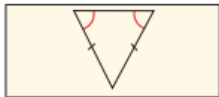
Angles around a point sum to 360°



Angles in a triangle sum to 180°



In an isosceles triangle, two angles are equal



Vertically opposite angles are equal

Wednesday 29.4.20

Q2

Write a summary of what you know about:

E.g. Vertically opposite angles: when two straight lines cross they form opposite angles that are equal.

Angles in a quarter turn

Angles in a half turn

Angles in a three-quarter turn

Angles in a full turn

Angles in a triangle

Angles in an isosceles triangle

Angles in a quadrilateral

Wednesday 29.4.20

Reasoning

Q3

Kirsty says,



“When you double the size of an acute angle, you get an obtuse angle.”

Explain why Kirsty is **not** correct.

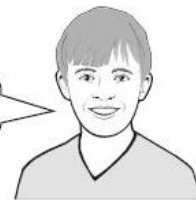
Wednesday 29.4.20

Q4

Two of the angles in a triangle are 70° and 40°

Jack says,

The triangle is equilateral.



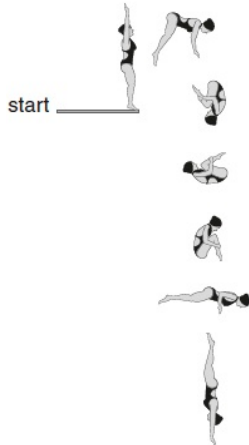
Explain why Jack is **not** correct

Thursday 30.4.20

Q1

Layla completes a one-and-a-half somersault in a dive.

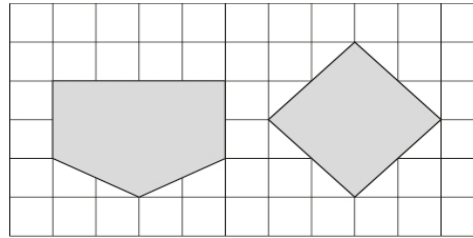
How many degrees does Layla turn through her dive?



Thursday 30.4.20

Q2

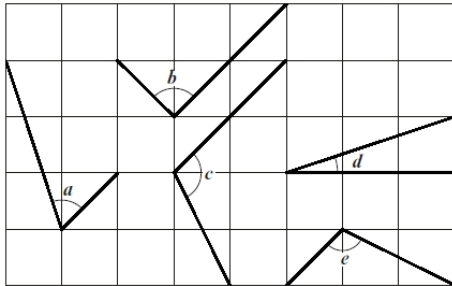
Here are two shapes on a square grid. For each shape, write how many right-angles it has.



Thursday 30.4.20

Q3

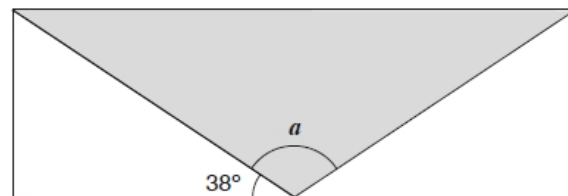
Here are five angles marked on a grid of squares. Write the letters of the angles that are obtuse.



Friday 31.4.20

Q1

A shaded isosceles triangle is drawn inside a rectangle.



Not to scale

Calculate the size of angle a .

Friday 31.4.20

Q2

Anna has **four** different triangles. Complete the table to show the size of the angles in each triangle.

Type of triangle	Angle 1	Angle 2	Angle 3
Isosceles	90°		
Right-angled	80°		
Isosceles	70°		
Isosceles	70°		