Monday 27.4.20



0

These lines indicate that the two angles are

opposite angles.

This means that they will be the same size angle.

Monday 27.4.20

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

In an isosceles triangle, the angles add up to 180°. Two of these angles will be the same.

Tuesday 28.4.20

Ω1

Two angles in a triangle are 43° and 74°

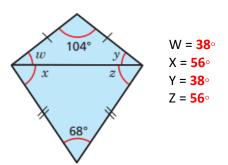
Is the triangle isosceles? No Show your working out. The missing angle is 63° so there is not a pair of angles. $43^{\circ} + 74^{\circ} = 117^{\circ}$ $180^{\circ} - 117^{\circ} = 63^{\circ}$

Tuesday 28.4.20

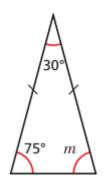
Q3

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.)



Monday 27.4.20



Here is a triangle.

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

Q2 Workout the size of angle m. **75** \circ

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 False
Every equilateral triangle is an isosceles True
A right-angled triangle can be equilateral False
A right-angles triangle can be an isosceles True

Tuesday 28.4.20

Q2

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

29° and 122° = 151° + 29° = 180° 75.5° and 75.5° = 151° + 29° = 180° Each answer has a pair of angles that are the same.

Tuesday 28.4.20

Q4

Teddy is drawing a quadrilateral.

My quadrilateral has exactly three right-angles.



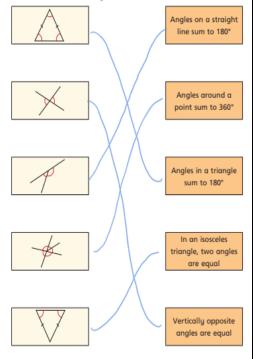
Is Teddy's quadrilateral possible? No

Explain your answer. $3 \times 90 = 270$ 360 - 270 = 90 If three angles were right angles, the third would also have to be a right angle.

Wednesday 29.4.20

Q1

Match each diagram to the correct rule



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 90°

Angles in a half turn 180°

Angles in a three-quarter turn 270°

Angles in a full turn 360°

Angles in a triangle add up to 180°

Angles in an isosceles triangle add up to 180 ° and has one pair of equal angles

Angles in a quadrilateral add up to 360°

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.

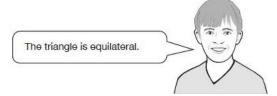
E.g. When you double 10° it is not obtuse

- 2 × 27° = 54°
- Double 45° is a right angle not obtuse

Wednesday 29.4.20

Q4

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



Explain why Jack is **not** correct

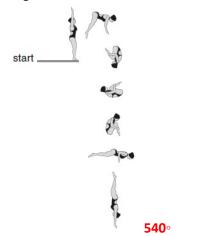
e.g. This specific triangle has angles 70°, 70° and 40° The properties of an equilateral triangle – all angles are equal (60°) and therefore that this triangle cannot be equilateral.

Thursday 30.4.20

Q1

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

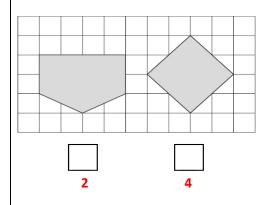
How many degrees does Layla turn through her dive?



Thursday 30.4.20

Q2

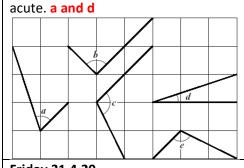
Here are to shapes on a square grid. For each shape, write how many right-angles it has.



Thursday 30.4.20

Q3

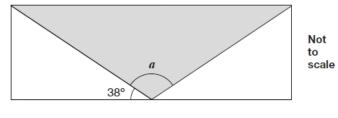
Here are five angles marked on a grid of squares. Write the letters of the angles that are obtuse. **c and e**Write the letters of the angles that are



Friday 31.4.20

Q1

A shaded isosceles triangle is drawn inside a rectangle.



----- straight line 180° -----

Calculate the size of angle $a. 104^{\circ}$

180 - 38 - 38 = a

Friday 31.4.20

Q2

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

Type of triangle	Angle 1	Angle 2	Angle 3
Isosceles	90°	45	45
Right-angled	80°	90	10
Isosceles	70°	70	40
Isosceles	70°	55	55