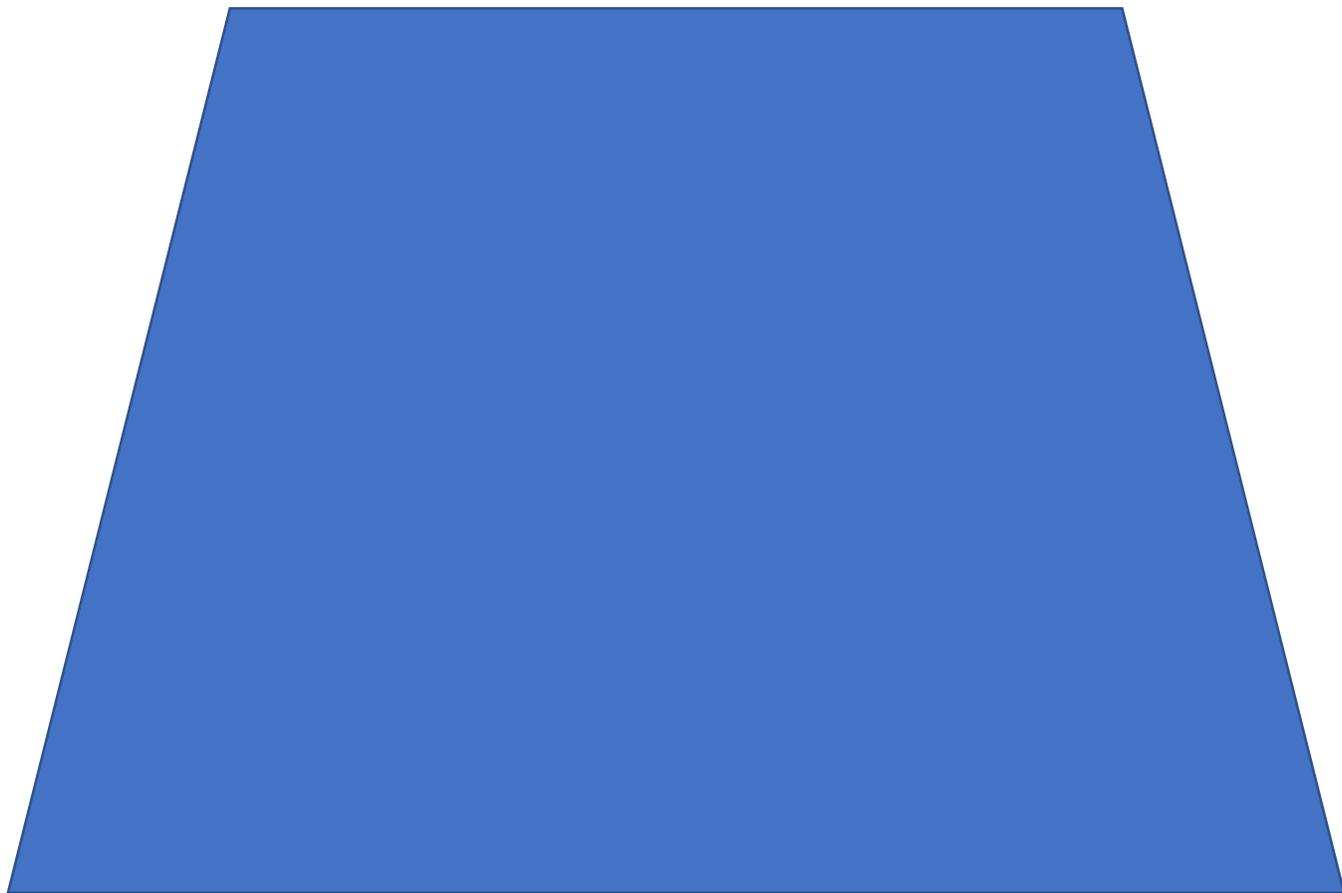


Monday 10th May

Can you calculate angles?



Name the shape and give 4 properties of the shape.

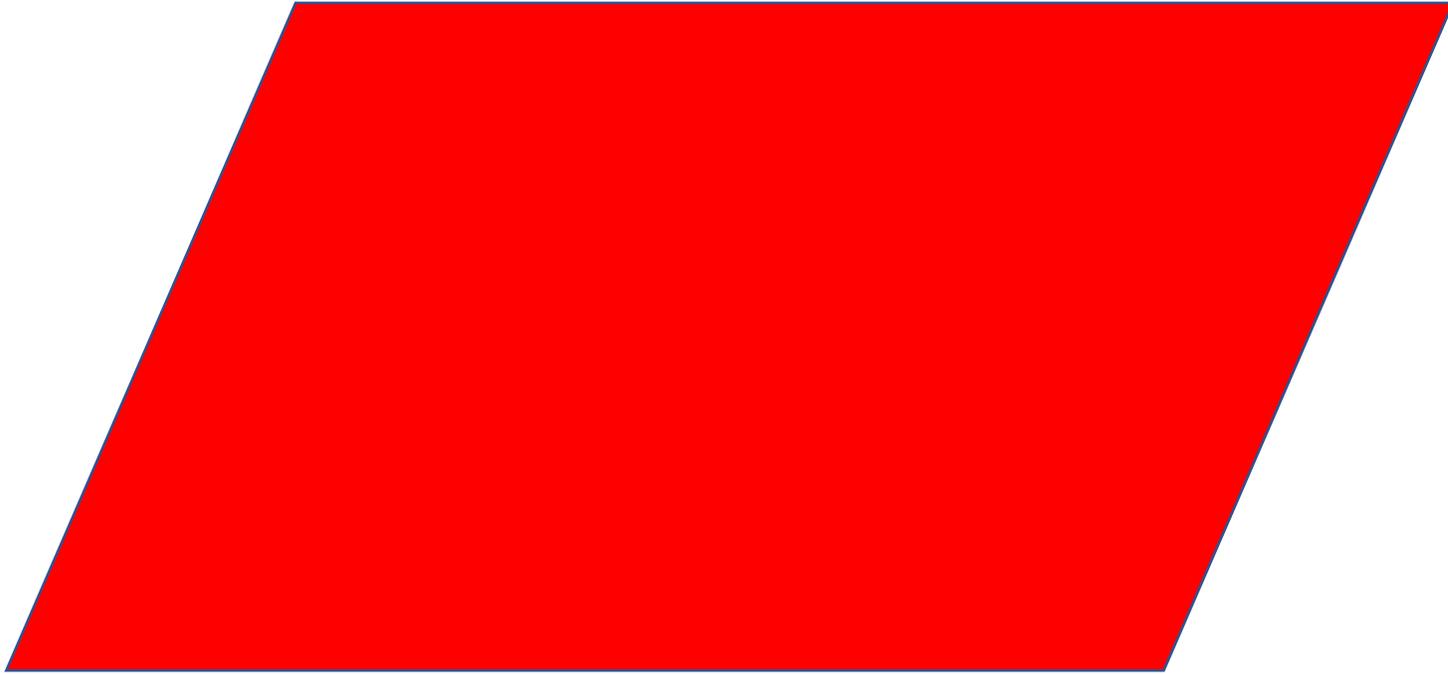
1

2

3

4

What can you tell me about the angles?



Name the shape and give 4 properties of the shape.

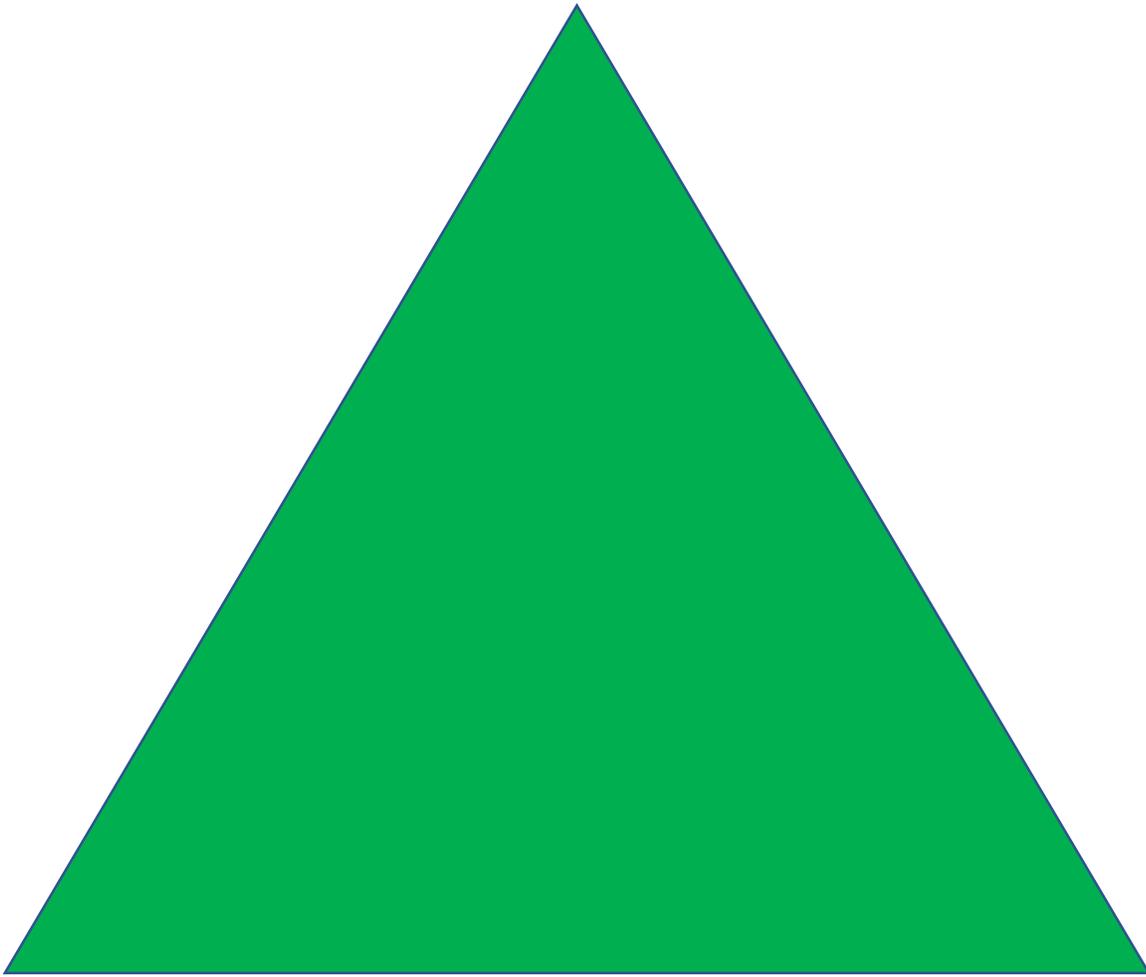
1

2

3

4

What can you tell me about the angles?



Name the shape and give 4 properties of the shape.

1

2

3

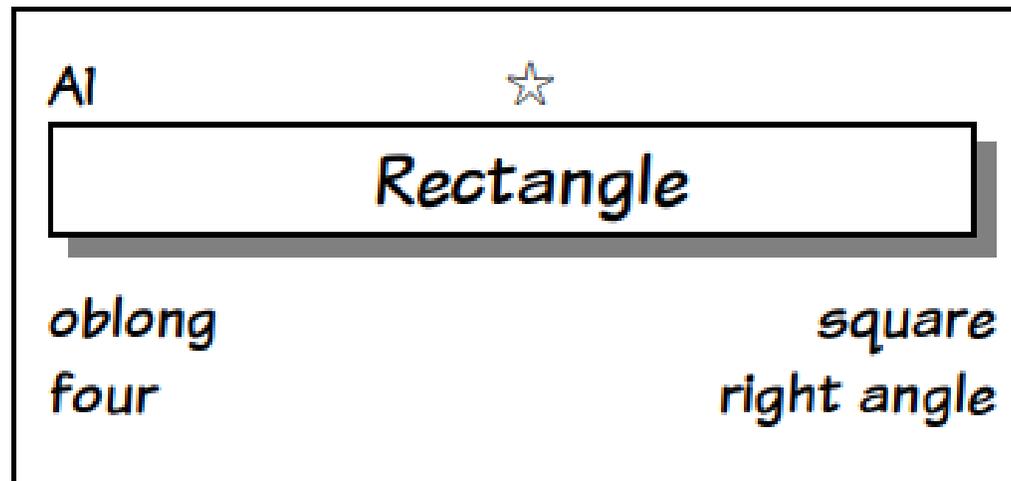
4

What can you tell me about the angles?

Forbidden Words

On the next slide you will see a card containing a shape and 4 forbidden words.

Your task is to describe the shape to your partner without using any of the forbidden words. Can your partner guess the name of the shape you are describing?



Partner A will need to turn away from the whiteboard before the next slide of the powerpoint

A9



Trapezium

four
parallel

trapezoid
quadrilateral

A5



Parallelogram

parallel
four

quadrilateral

A9



Trapezium

four
parallel

trapezoid
quadrilateral

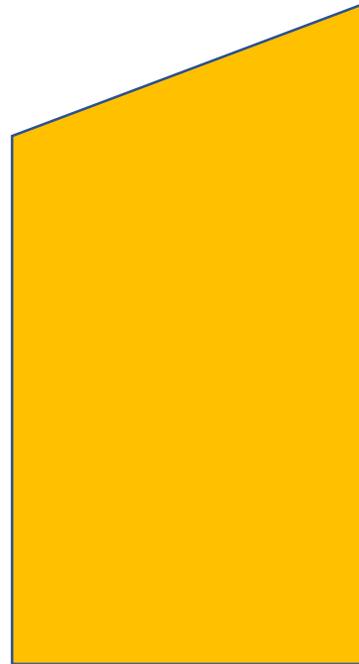
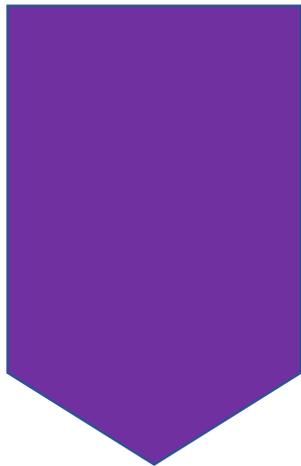
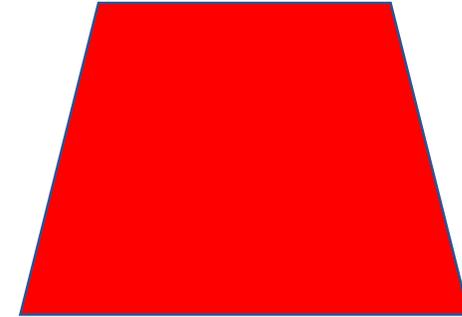
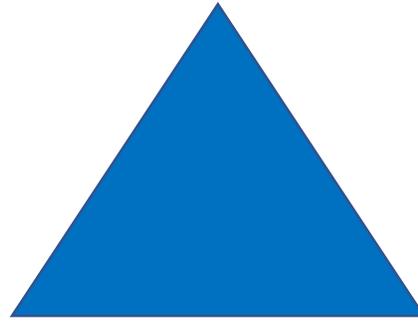
What do you remember about angles?

Acute Angle -

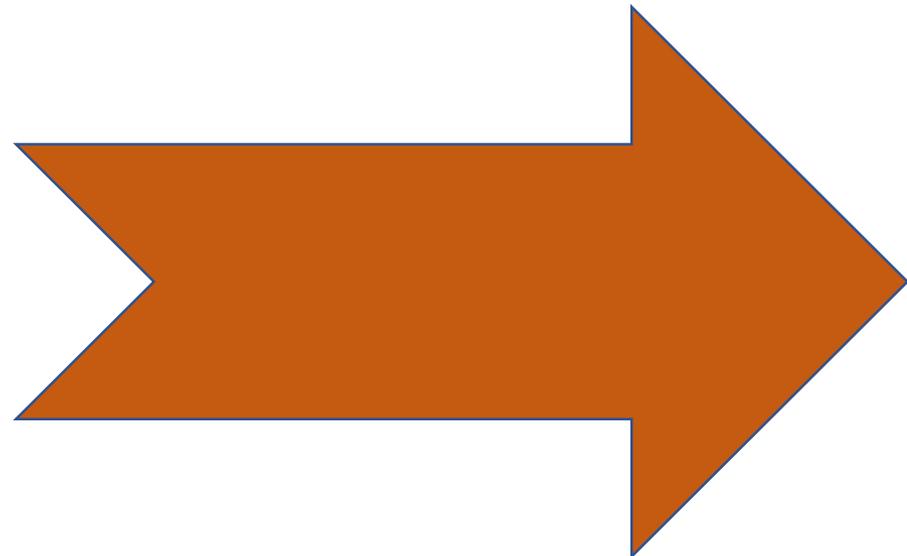
Obtuse Angle -

Reflex Angle -

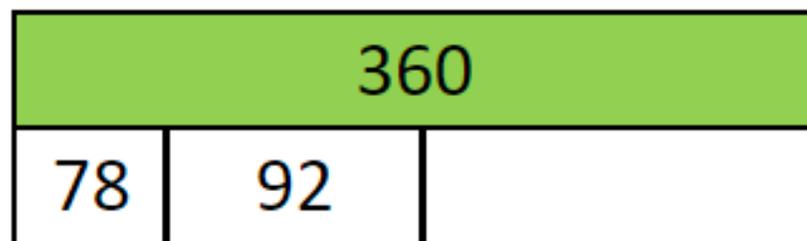
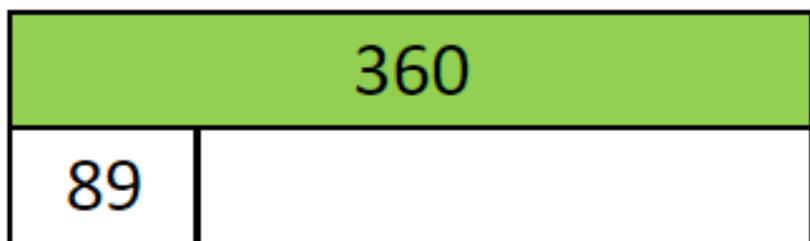
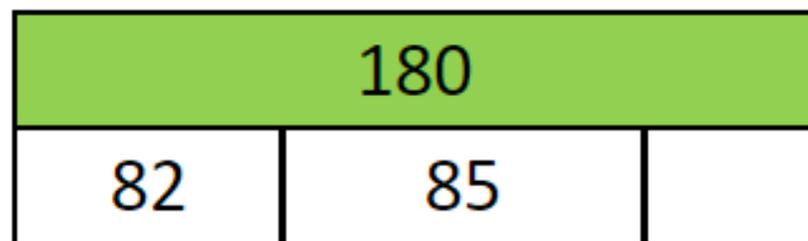
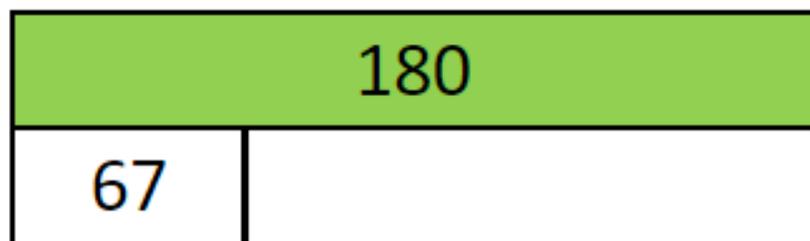
Right Angle -



Can you spot examples of all angle types?



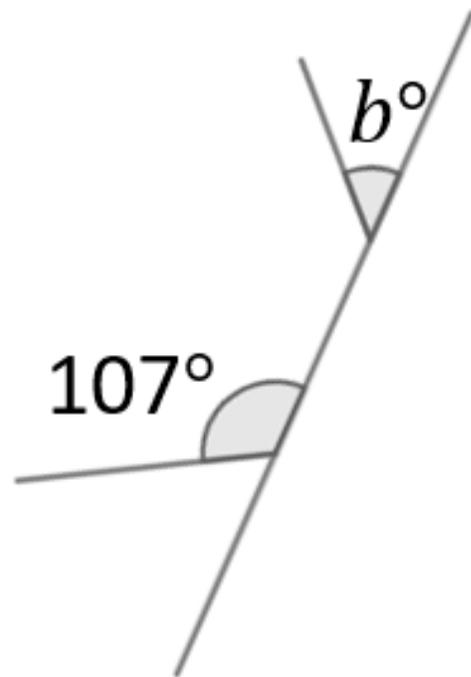
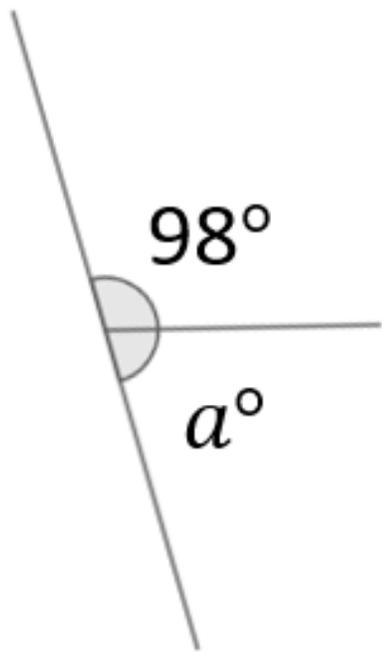
1) Complete the bar models.



2) The arrow is turned 90° anti-clockwise.
Which way is the arrow now facing?



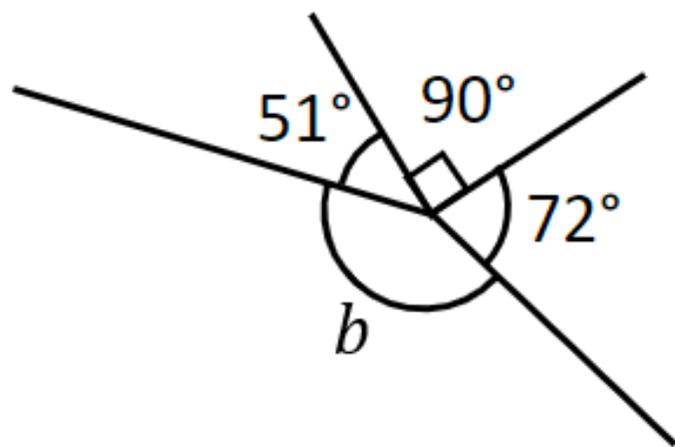
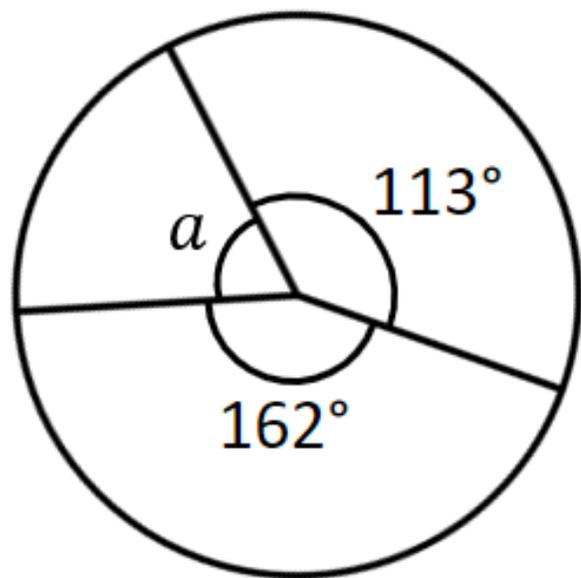
Adjacent angles on a straight line sum to 180°



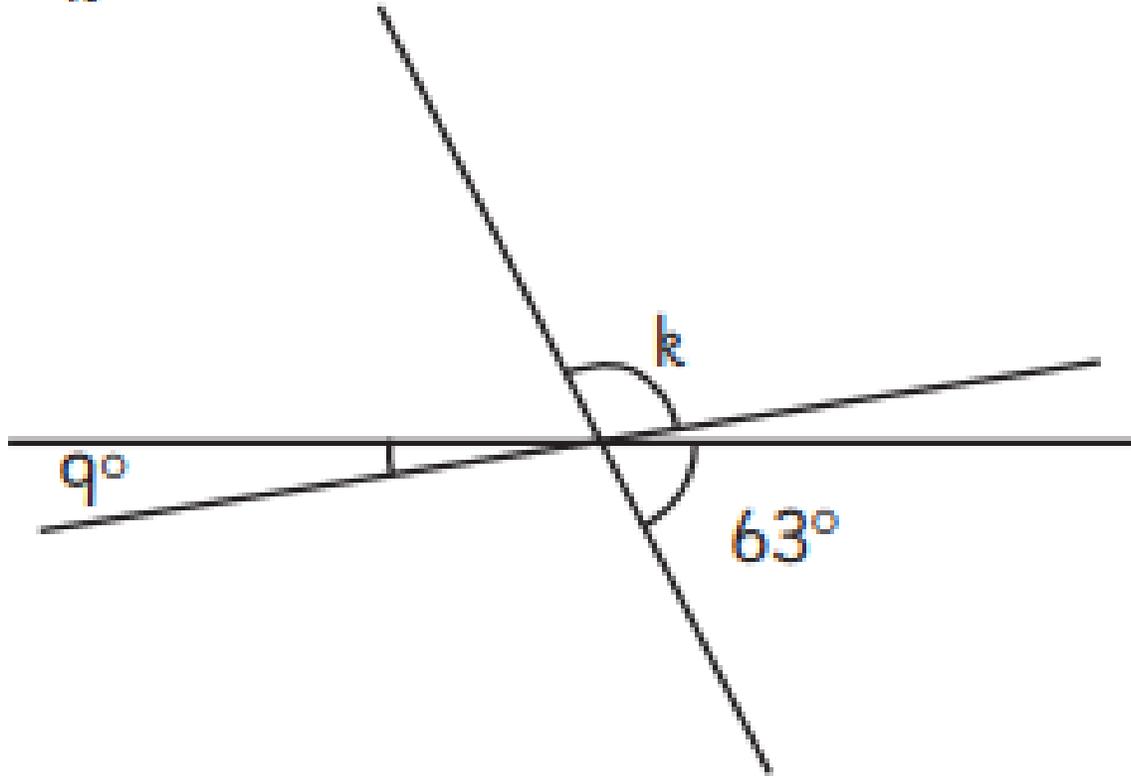
Can you calculate the missing angles?

Angles around a point sum to 360°

Calculate the missing angles

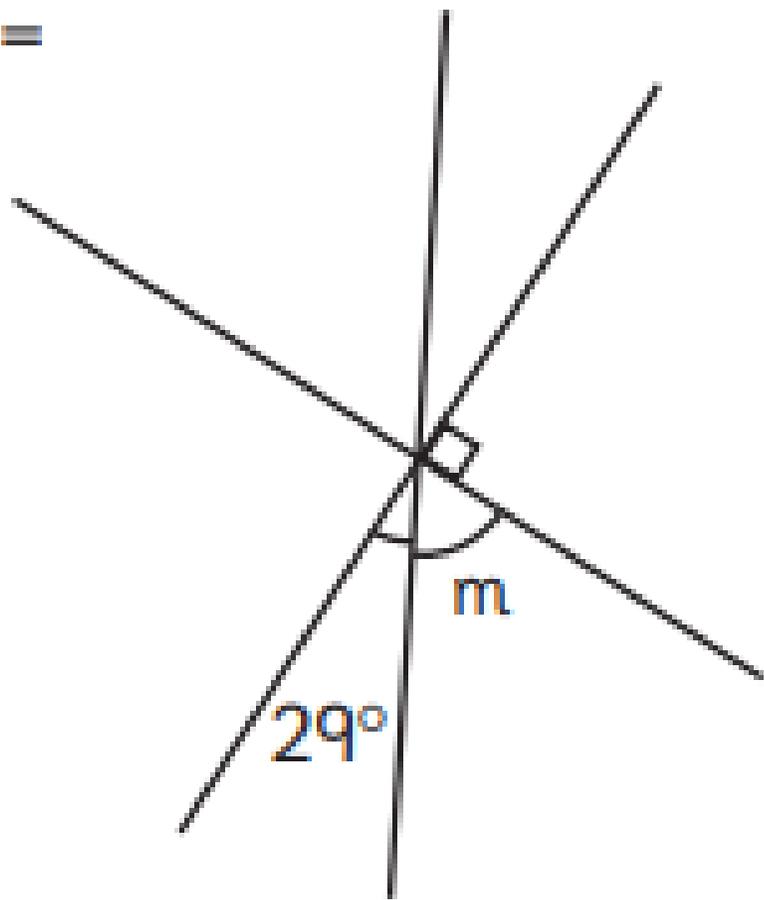


$k =$

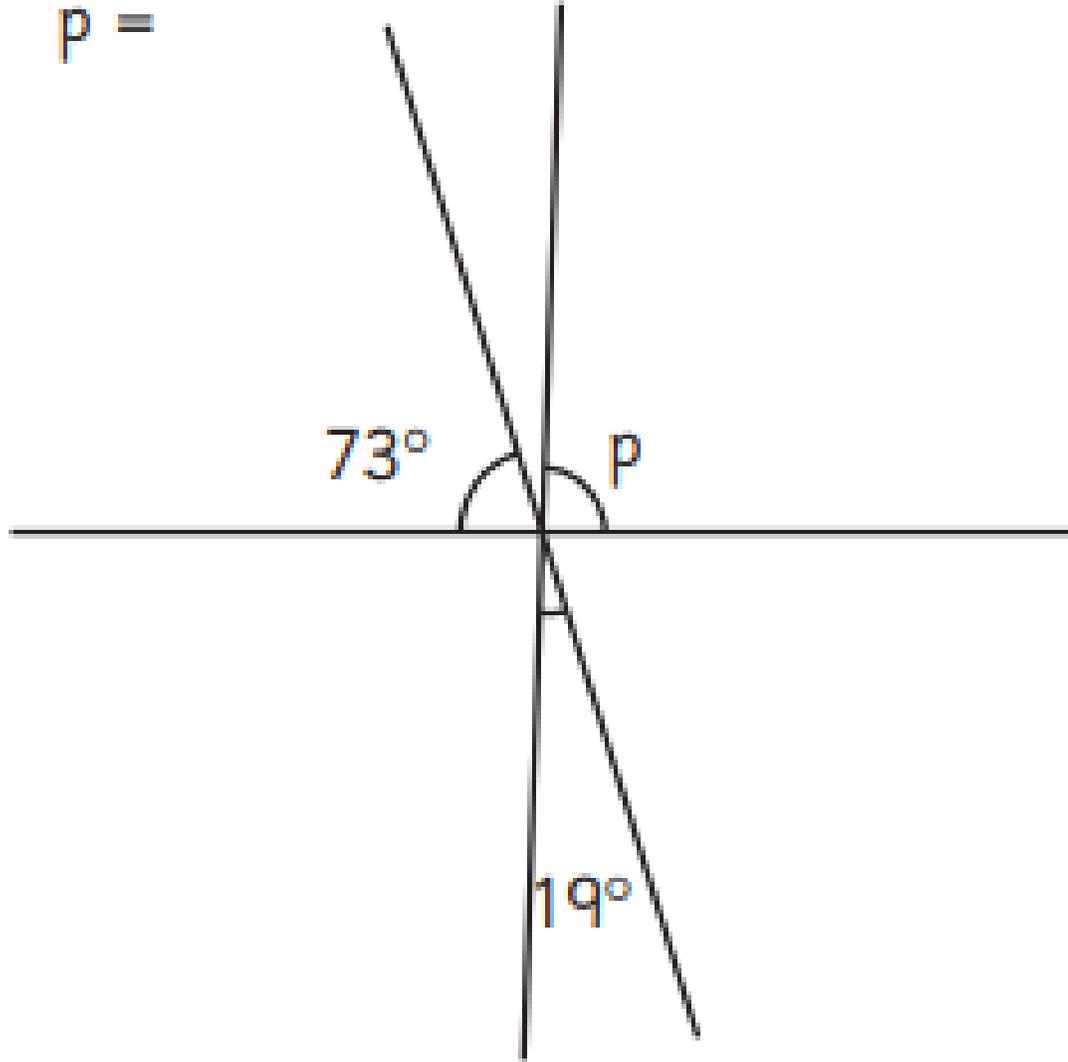


How can we calculate the size of angle K?
Think about what you already know
about angles.

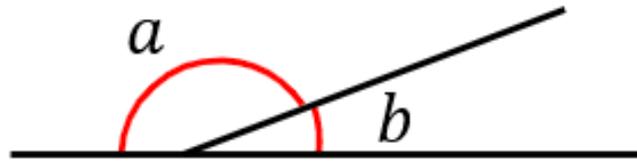
$m =$



$p =$



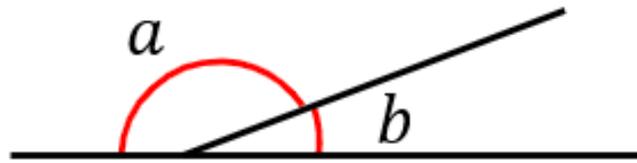
Angle a is 3 times the size of angle b
Work out the size of the unknown angles.



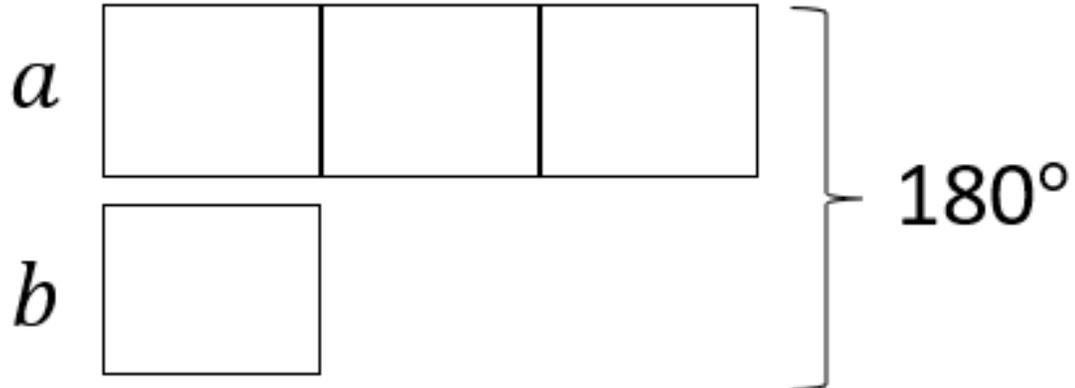
$$a + b = 180^\circ$$

Where will you begin?

Angle a is 3 times the size of angle b
Work out the size of the unknown angles.

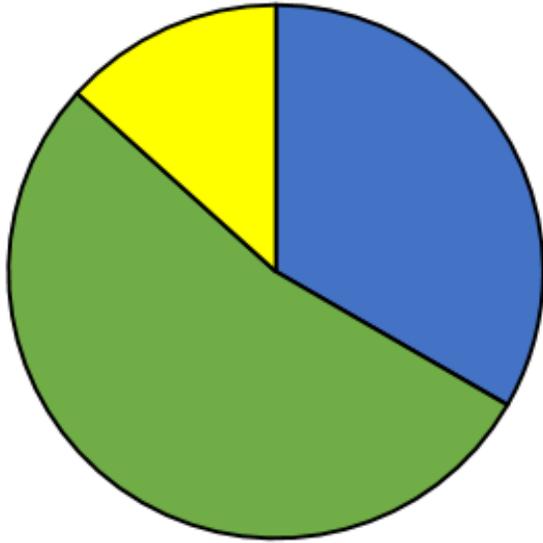


$$a + b = 180^\circ$$



Using the bar model,
what could we do?

A number of children voted for their favourite colour.
A third of the children said blue was their favourite colour.
Four times as many children voted for green as
those who voted for yellow.



Work out the size of the angle for each sector in the pie chart.



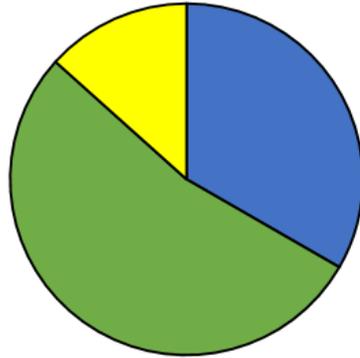
Where will you begin?

Could you use the bar model like you did with the previous question?

A number of children voted for their favourite colour.

A third of the children said blue was their favourite colour.

Four times as many children voted for green as those who voted for yellow.



Work out the size of the angle for each sector in the pie chart.

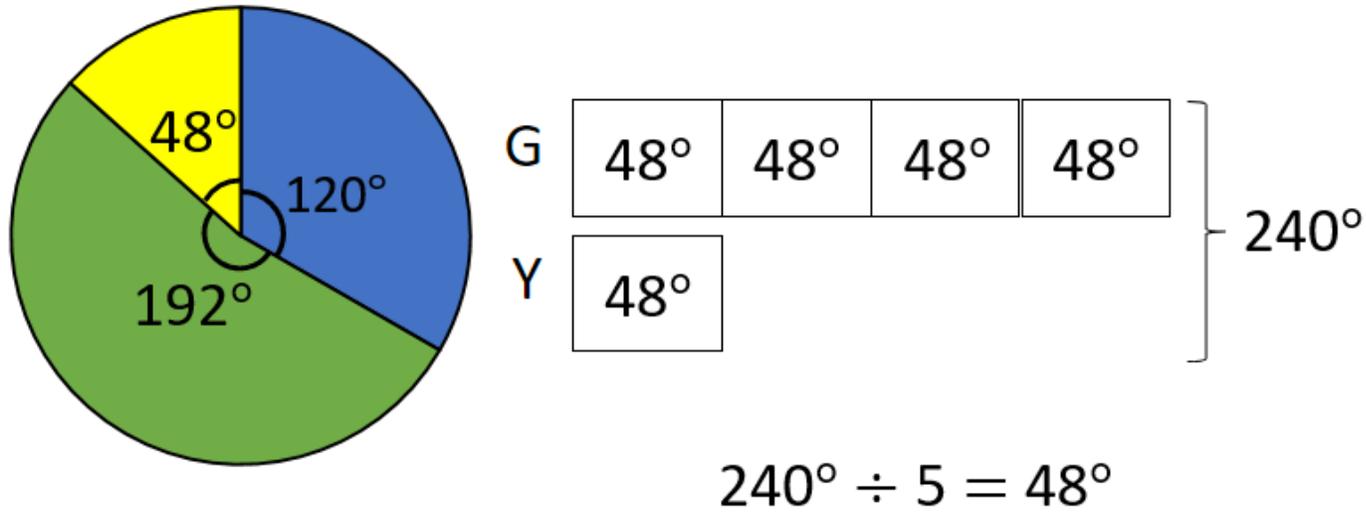
Answer will appear on the next slide



A number of children voted for their favourite colour.

A third of the children said blue was their favourite colour.

Four times as many children voted for green as those who voted for yellow.



Tuesday 11th May

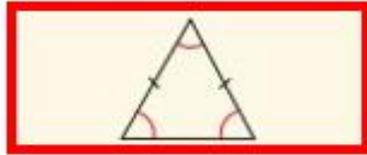
Can you calculate angles in a triangle?

Can you identify the prime factors of 72?

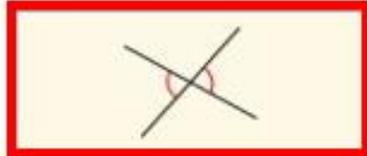
Can you find the prime factors of 56?

Use a factor tree to help you.

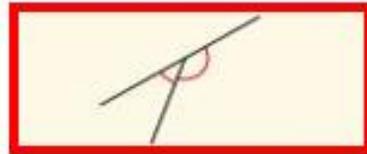
Match each diagram to the correct rule.



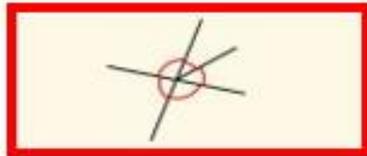
Angles on a straight line sum to 180°



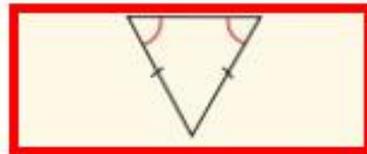
Angles around a point sum to 360°



Angles in a triangle sum to 180°



In an isosceles triangle, two angles are equal



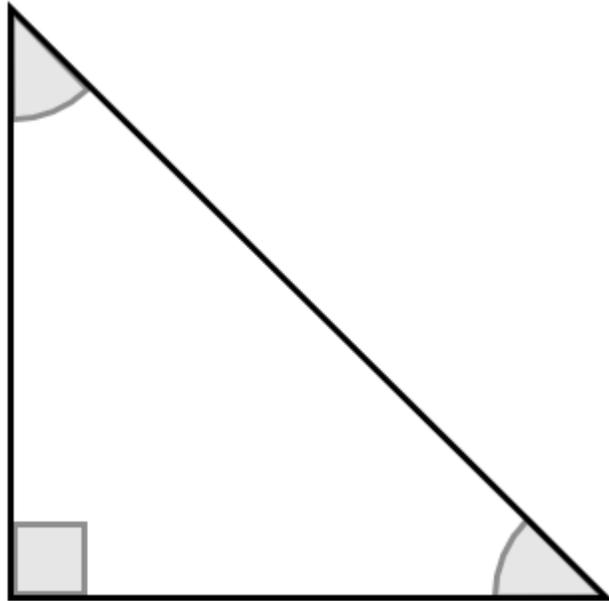
Vertically opposite angles are equal

Triangles

What do you know about triangles?



Angles in a triangle = 180°

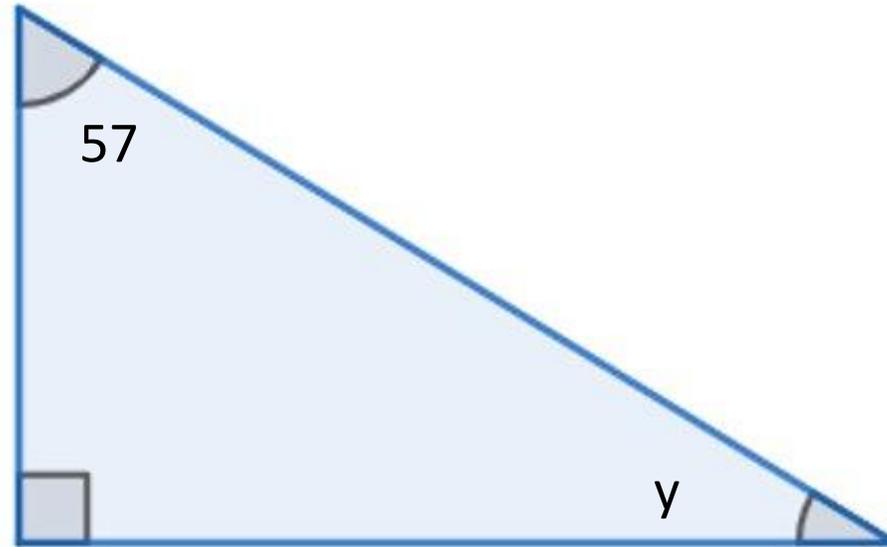


If you tear off each corner of the triangle and join the straight edges together, what will you see?

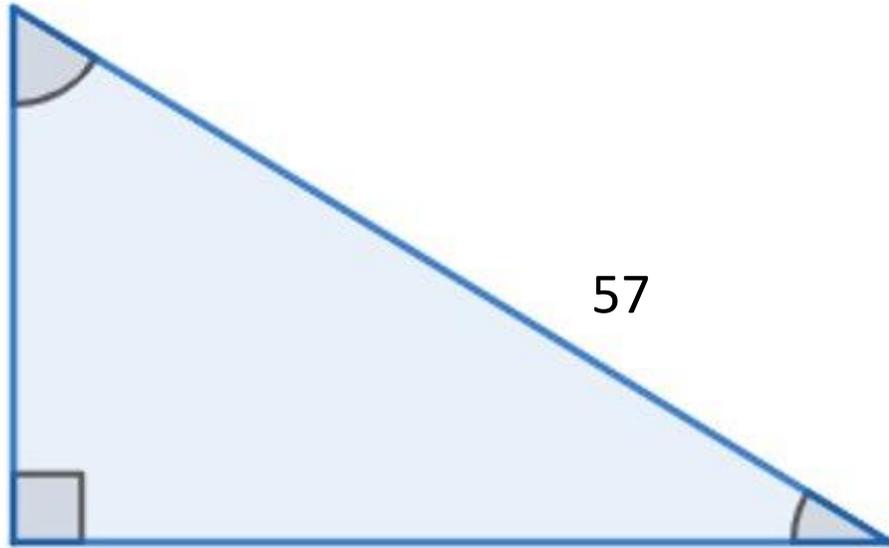
HAVE A GO

Calculate the size of angle y

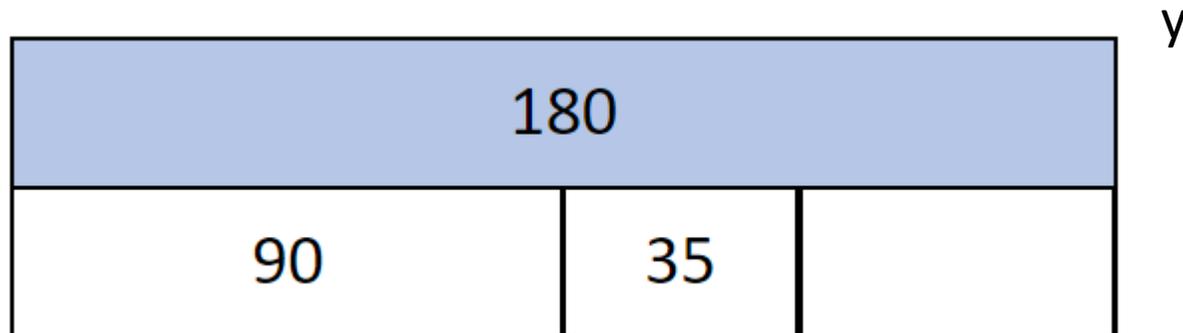
How will you
calculate the size
of angle y ?

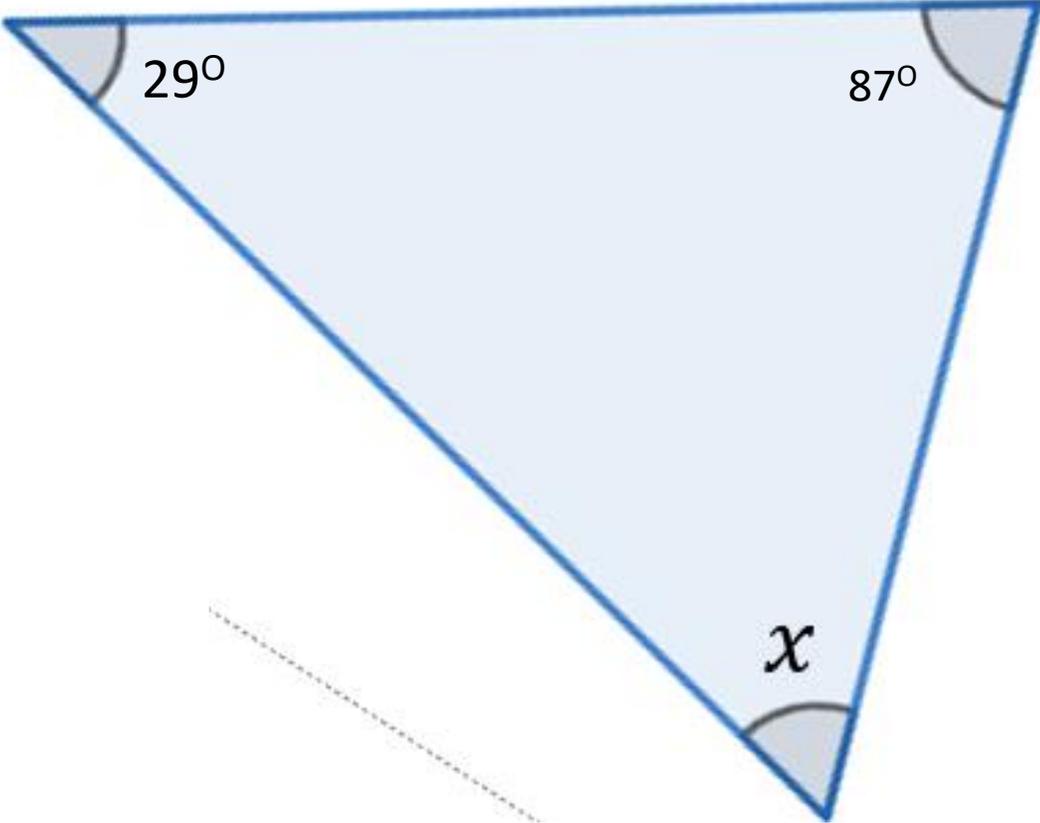


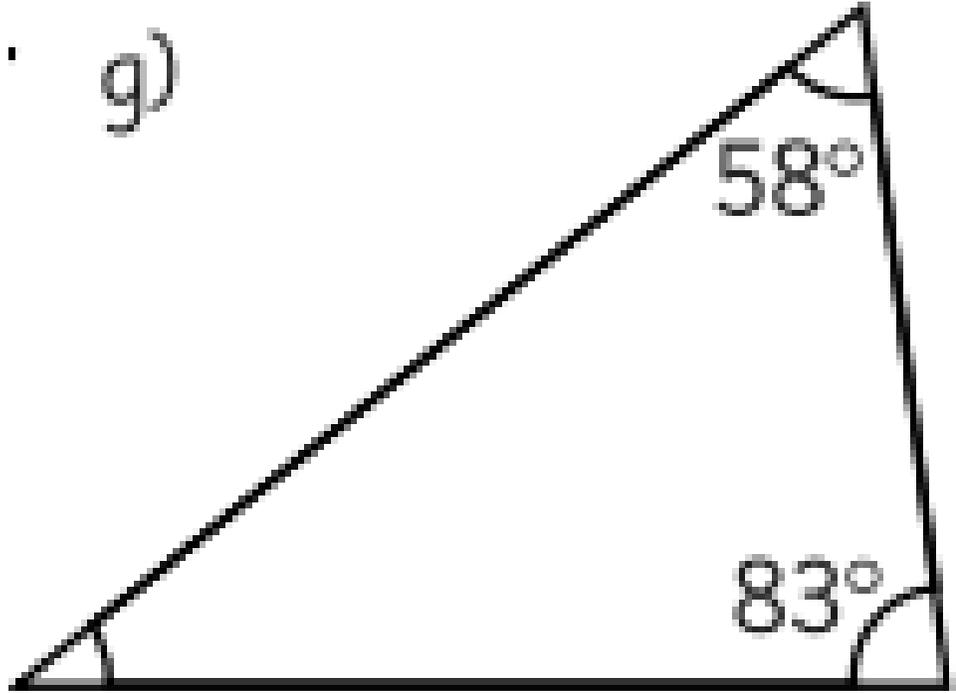
Calculate the size of angle y



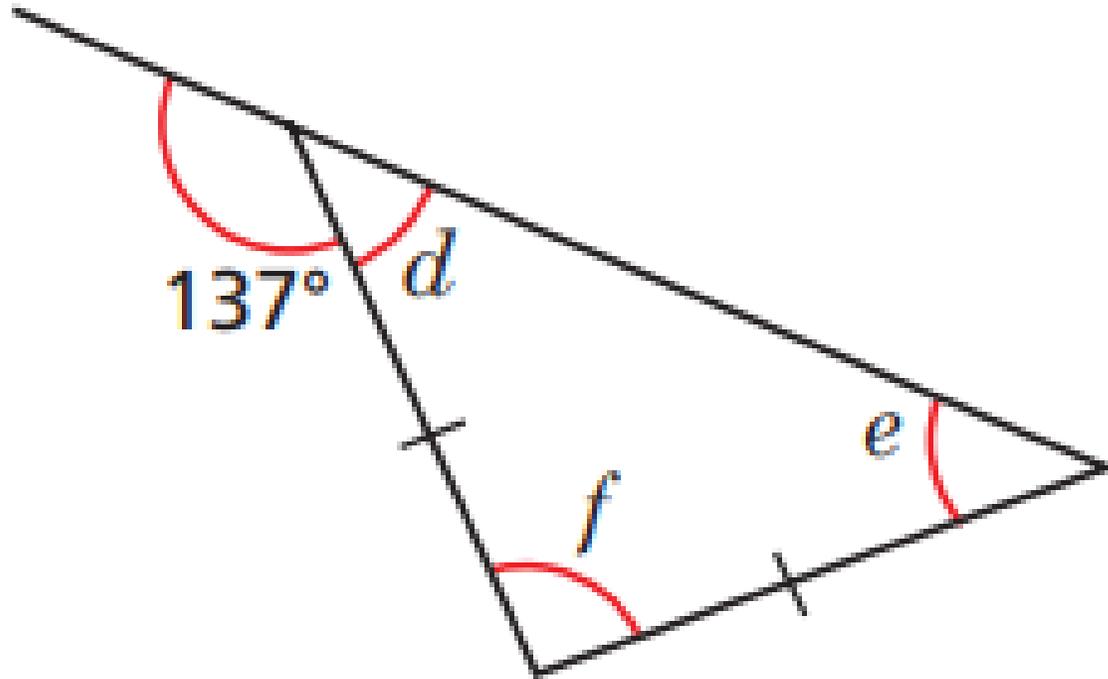
How will you calculate the size of angle y ?

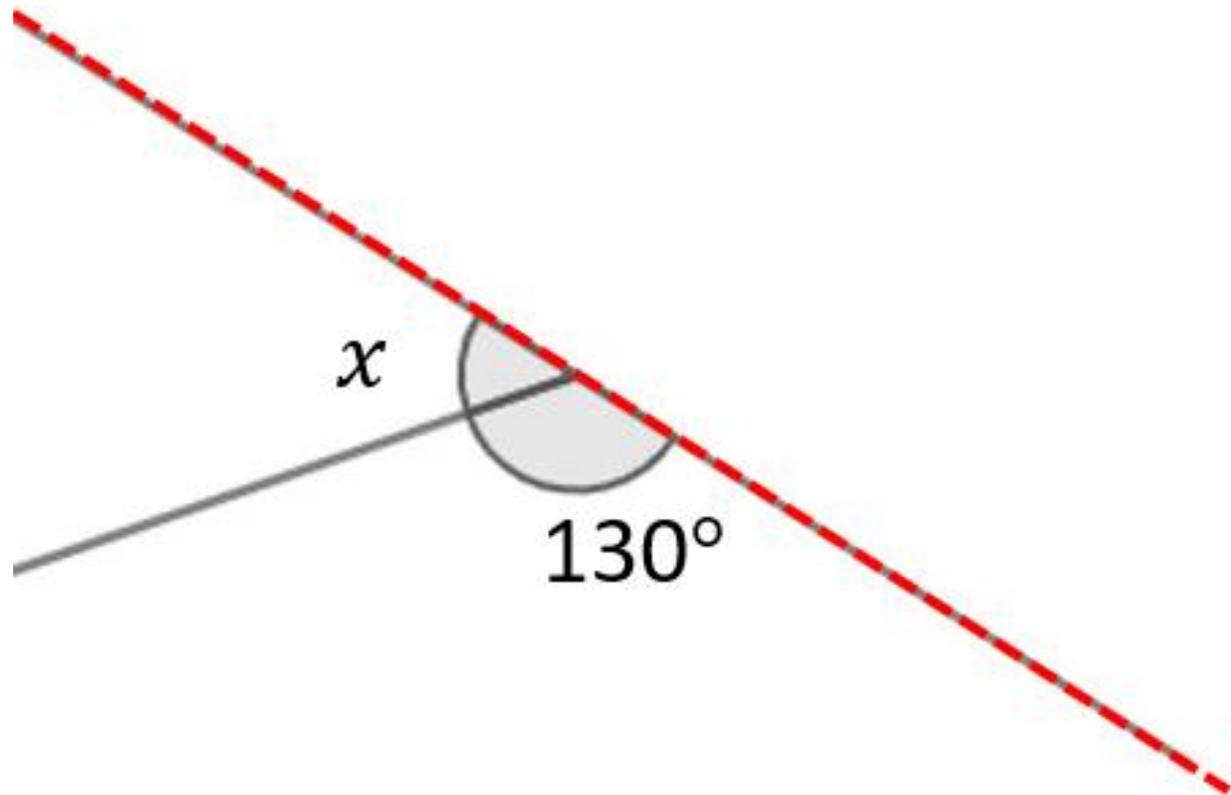




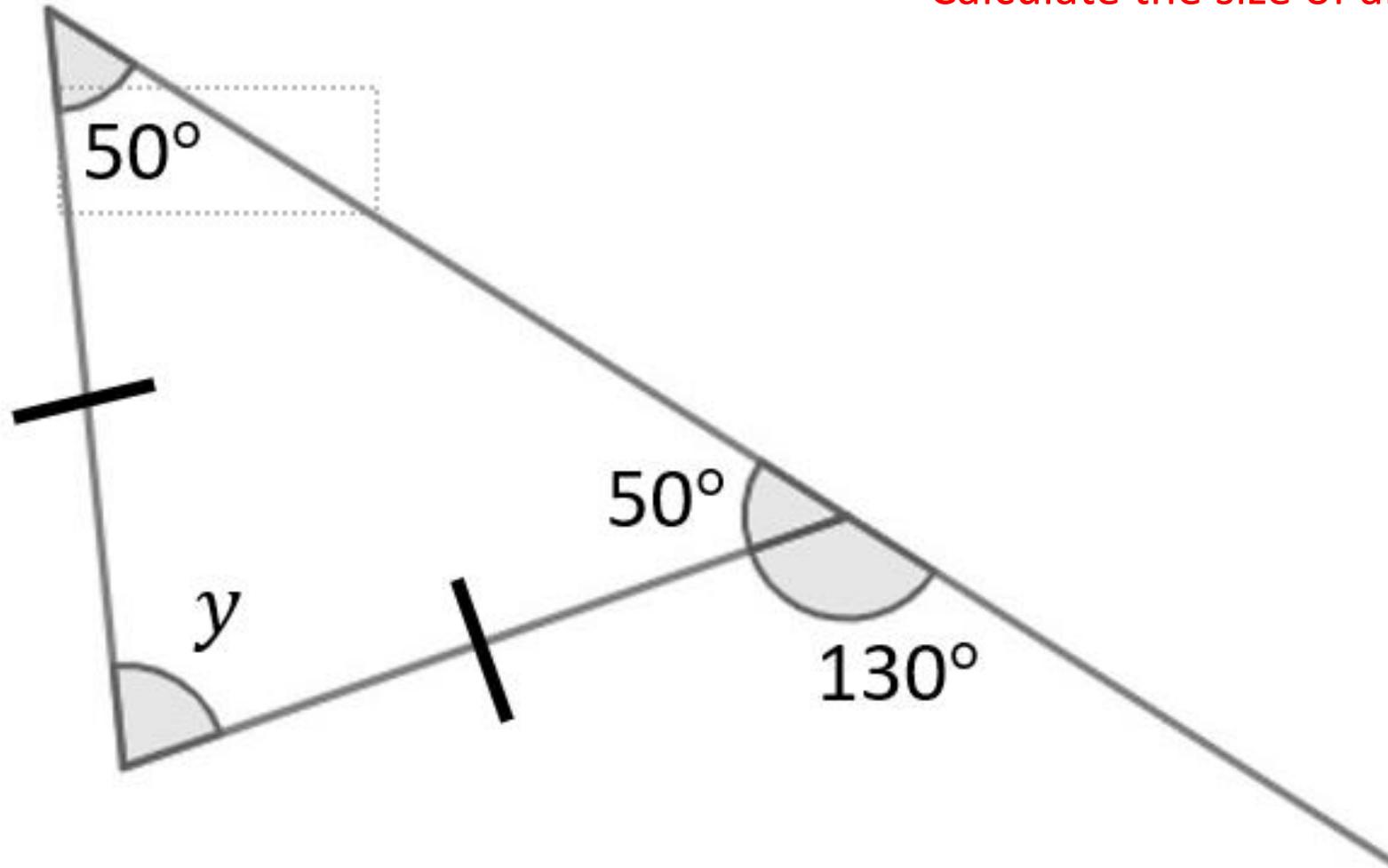


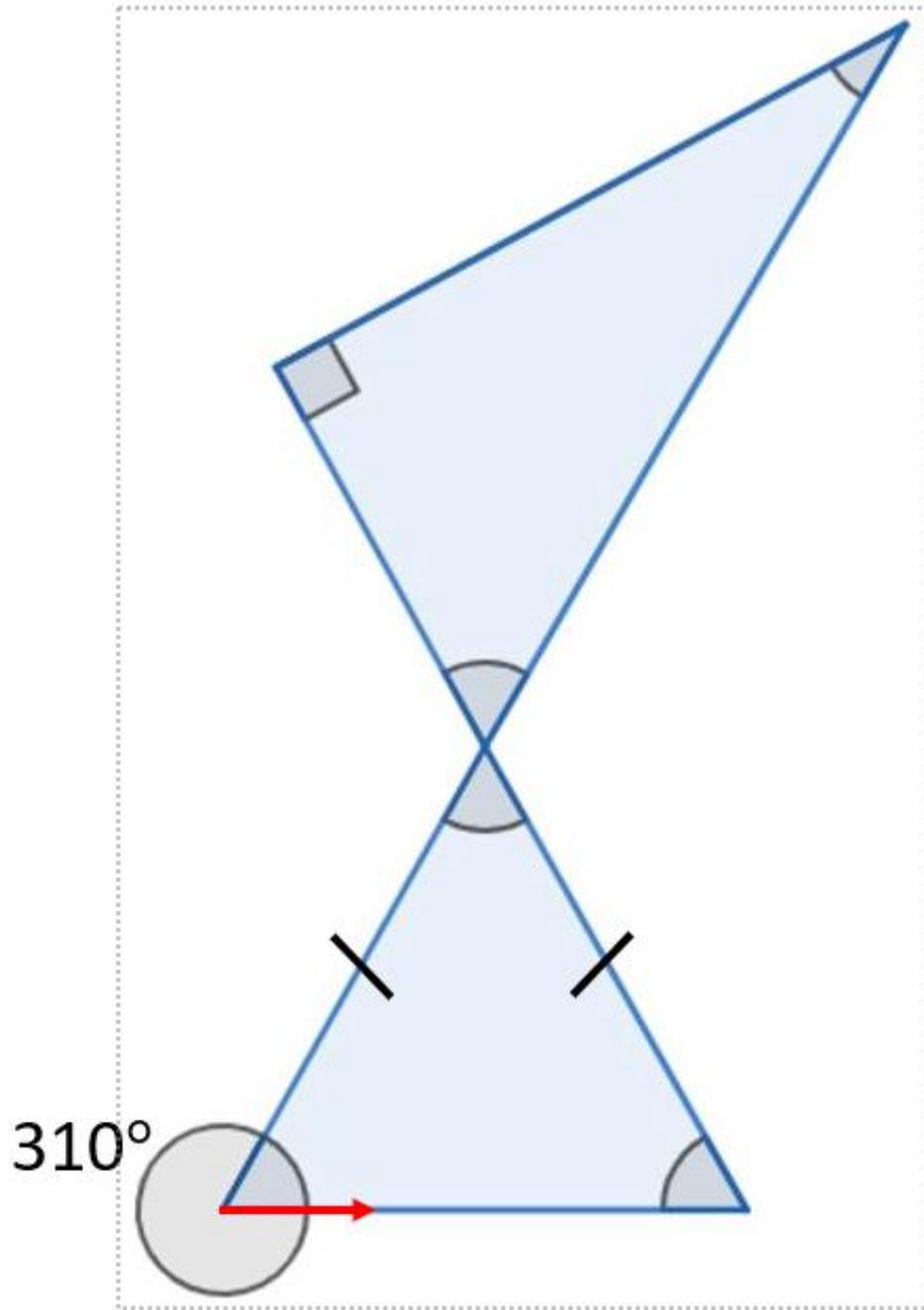
How will you calculate the missing angles? Think about what you already know.





Calculate the size of angle y



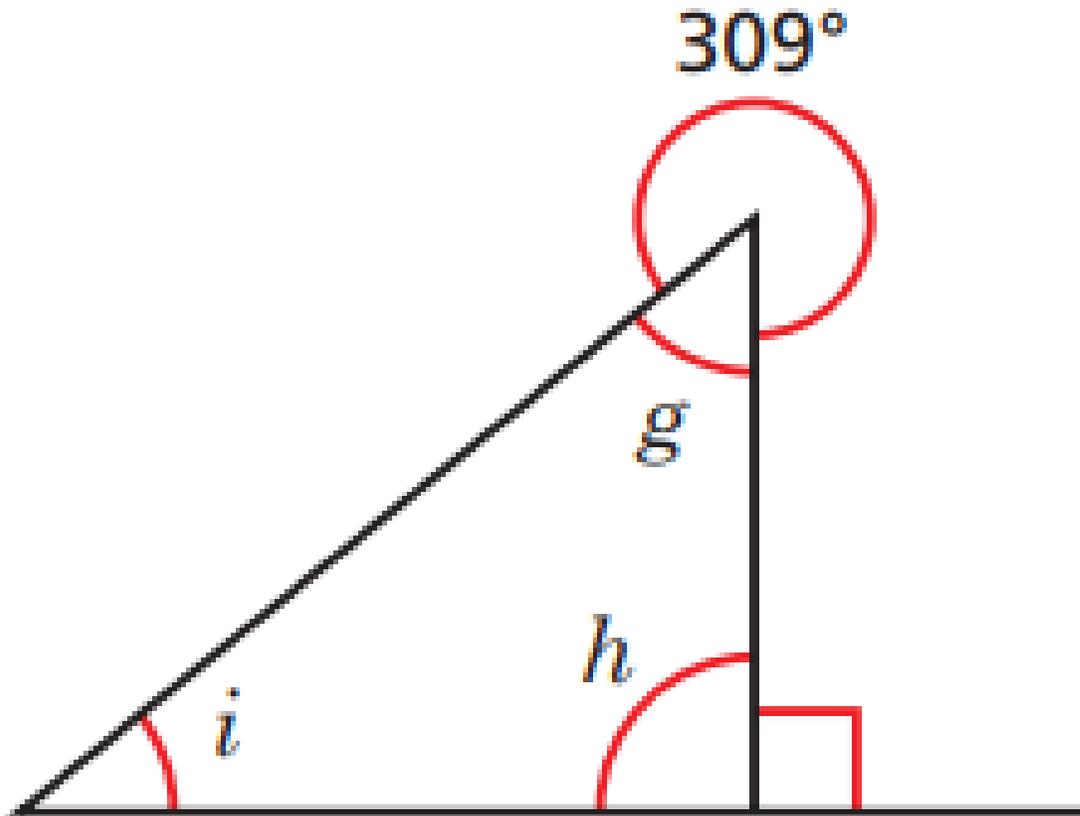


Where will we begin to calculate the missing angles this time?

What do I know already?

How can I use what I already know to calculate the missing angles?

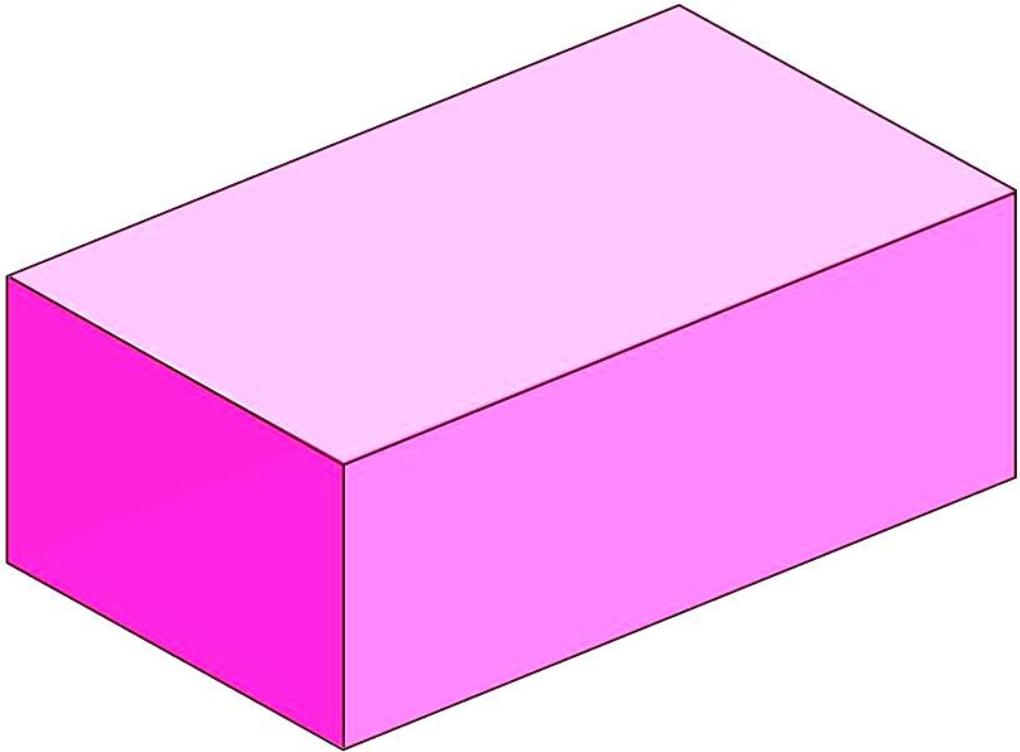
On your whiteboards, calculate angle g , h and i .



Wednesday 12th May

Can you calculate and identify angles in quadrilaterals?

Name the shape and give 4 properties.



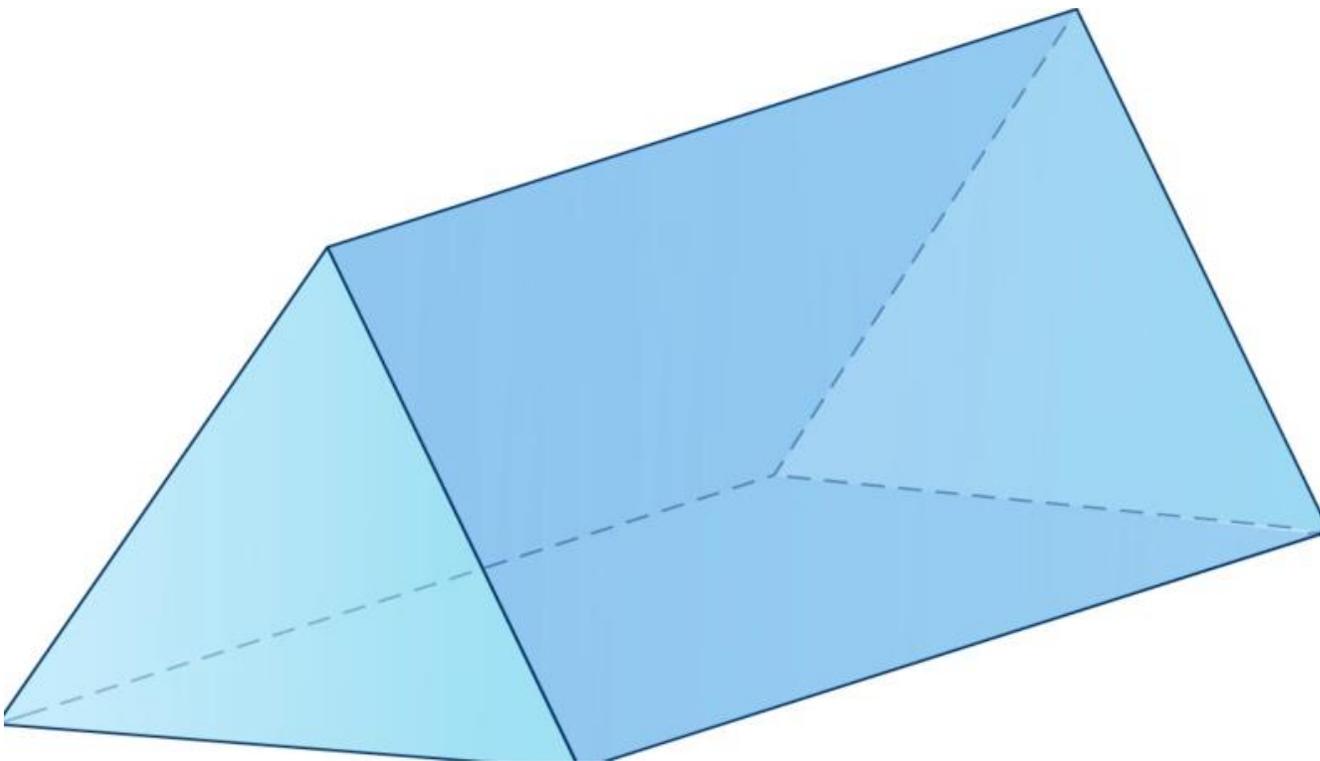
1.

2.

3.

4.

Name the shape and give 4 properties.



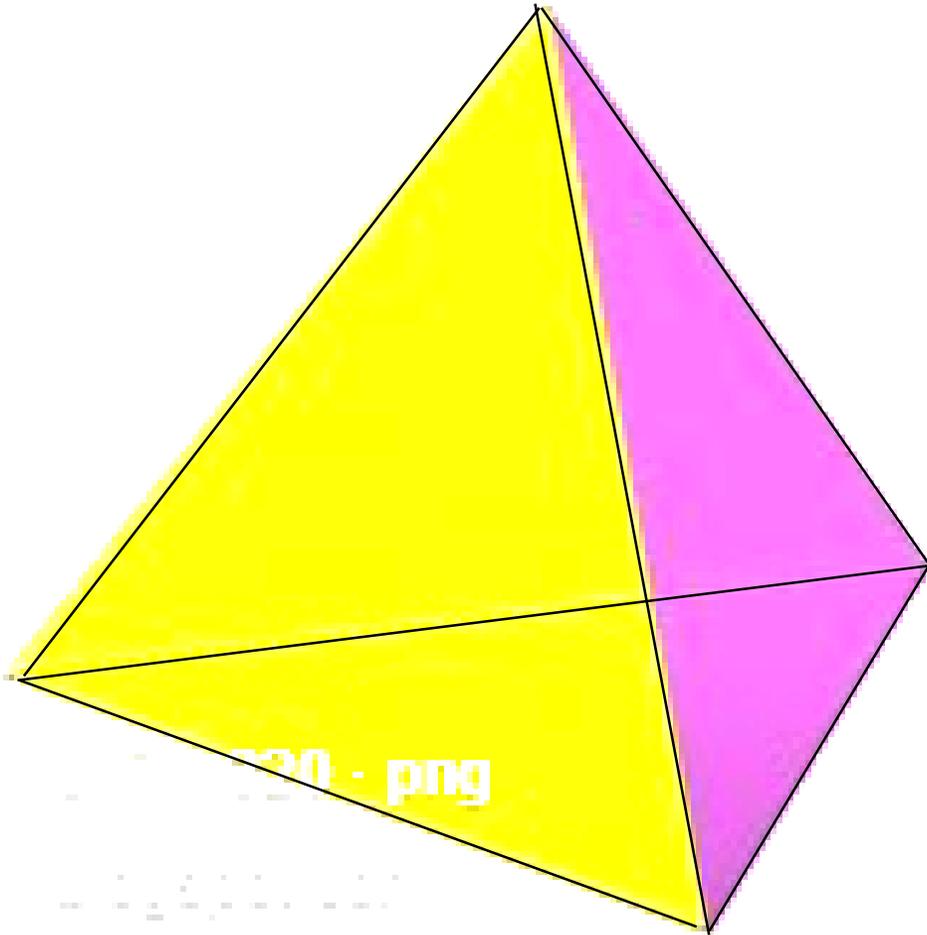
1.

2.

3.

4.

Name the shape and give 4 properties.



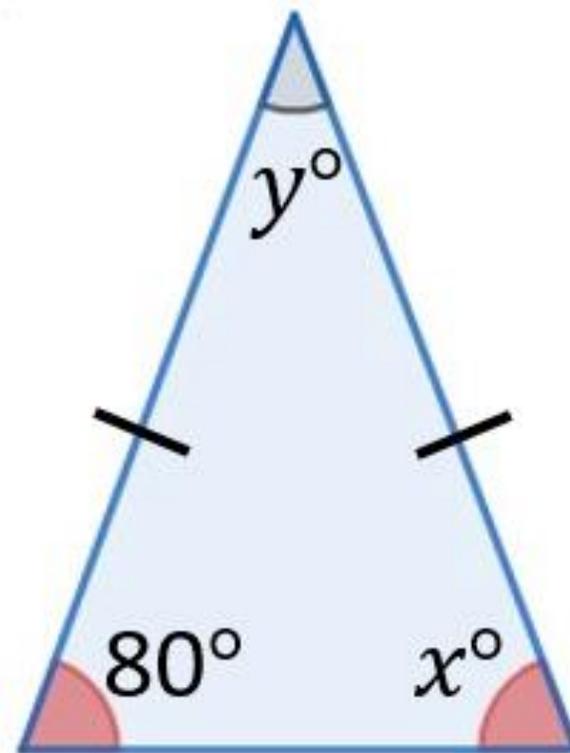
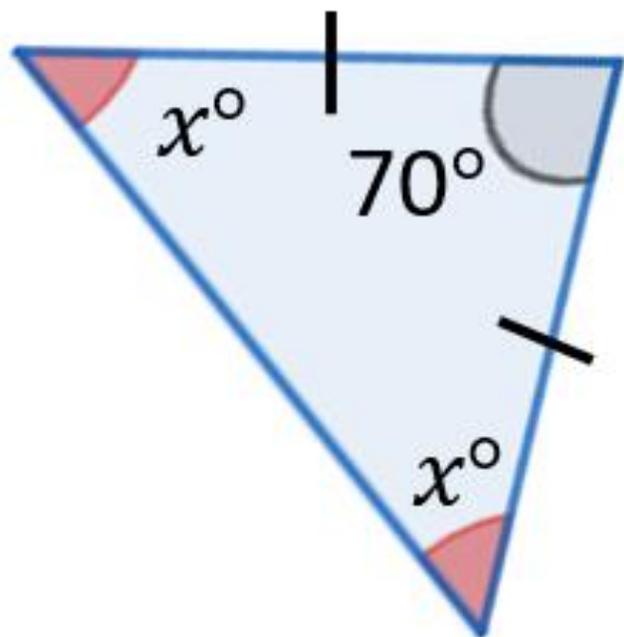
1.

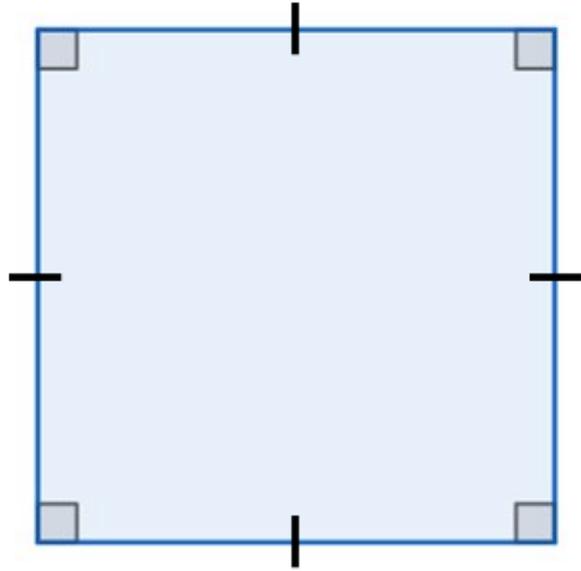
2.

3.

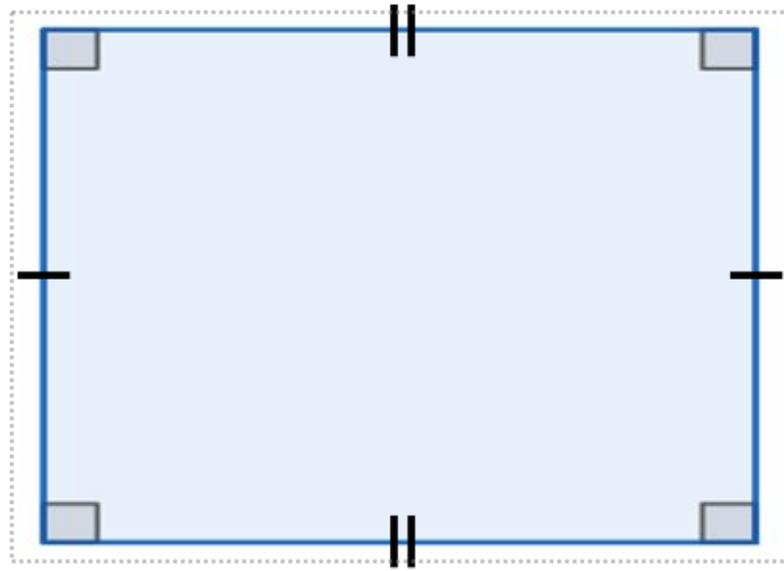
4.

Calculate the missing angles.



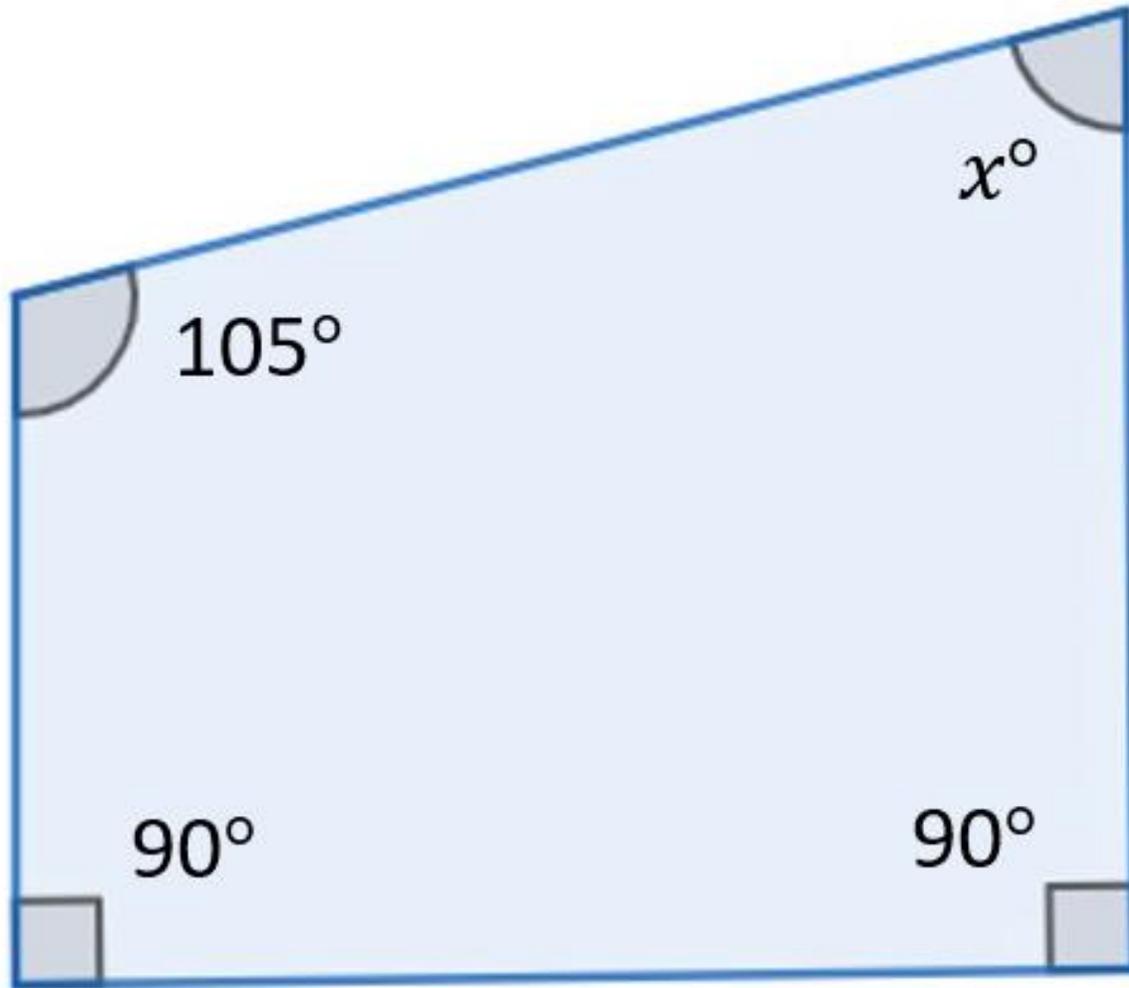


4 right angles



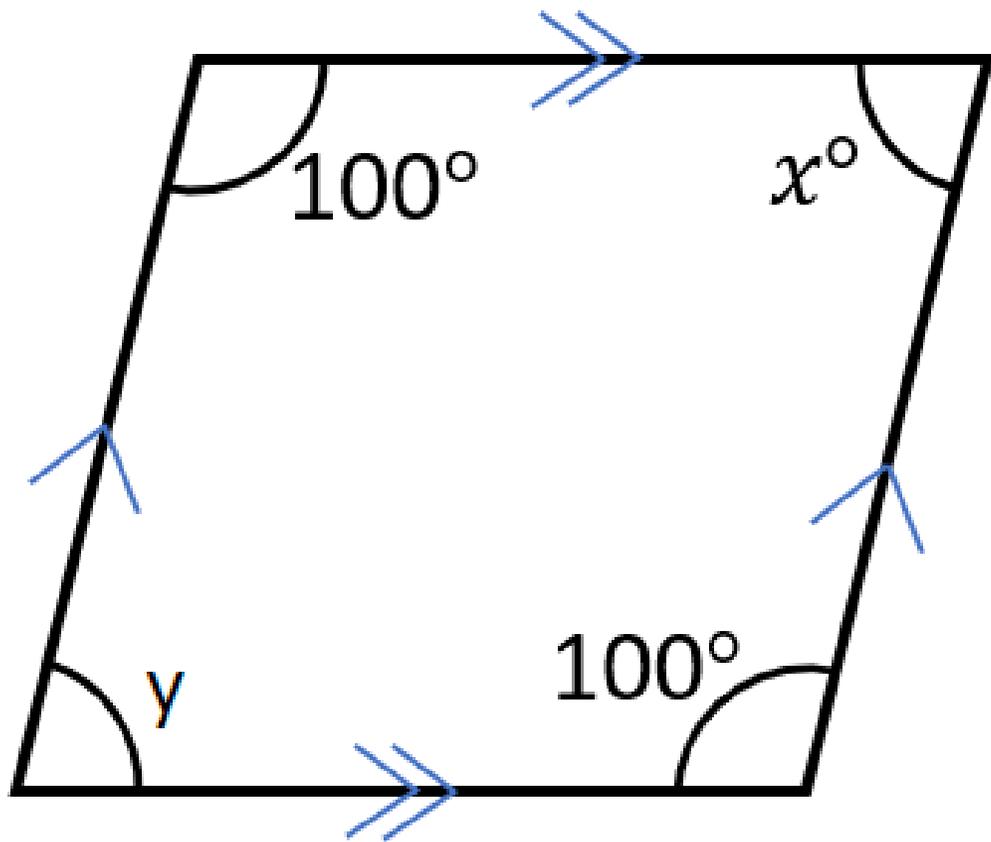
4 right angles

What's the same?
What's different?



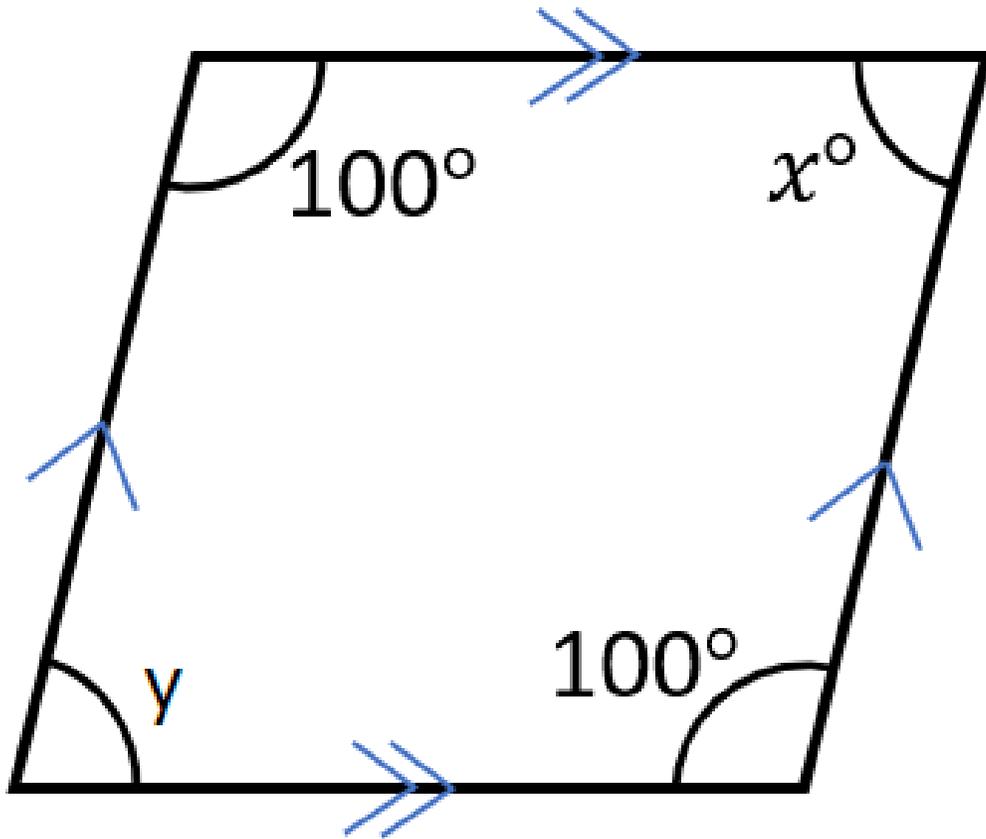
What do we know that would help calculate the missing angle in this shape?

What is the name of this shape?
What can you tell me about the angles?



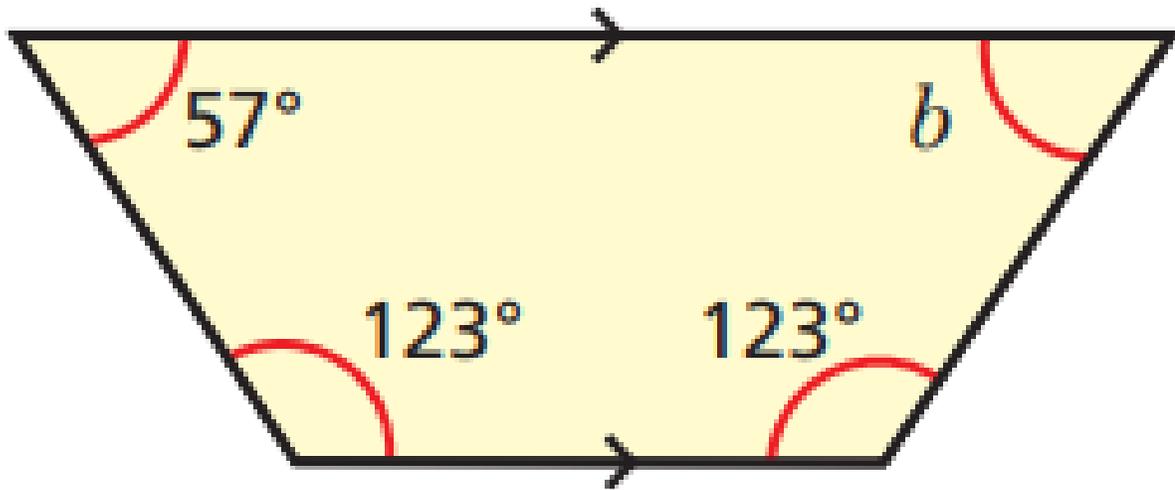
How can we calculate the missing angles in this shape?

What do we already know?

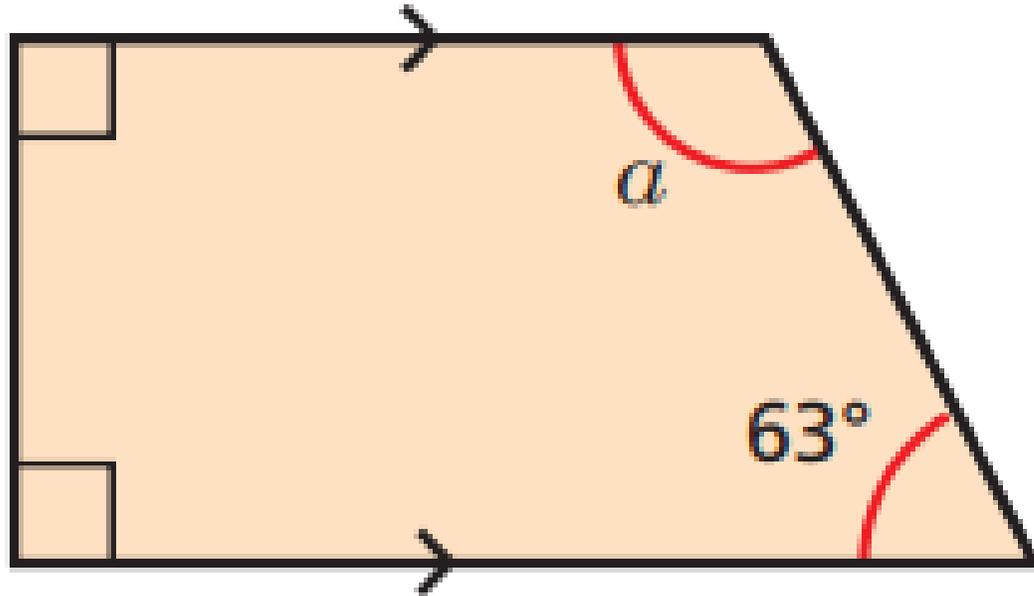


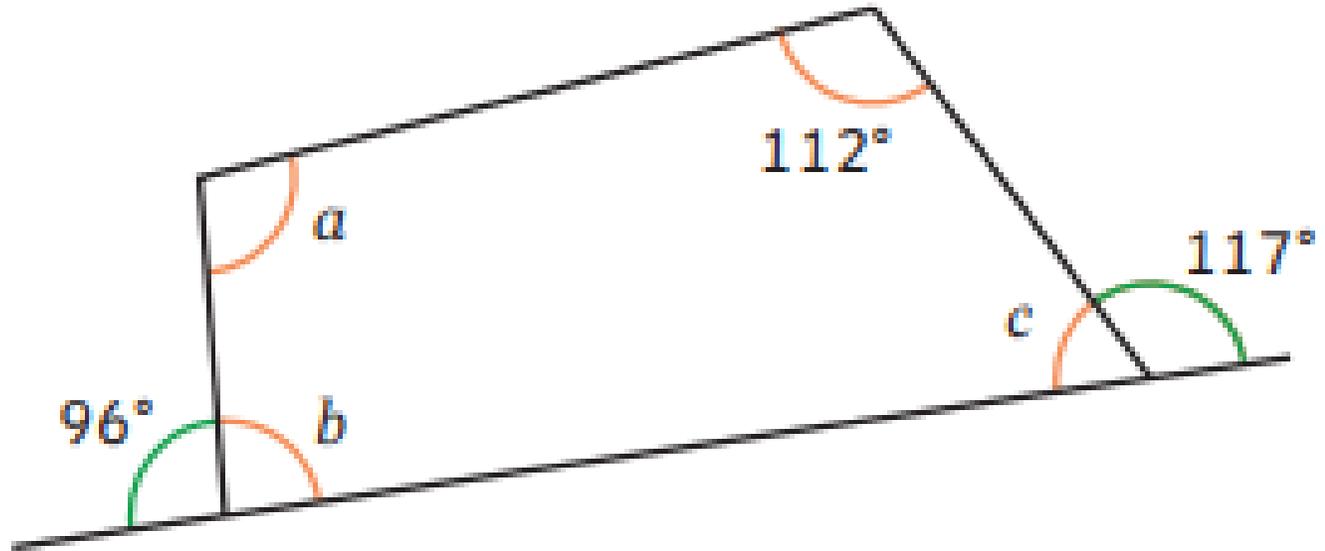
What is the shape?
What can you tell me about the angles?

Calculate the missing angle.

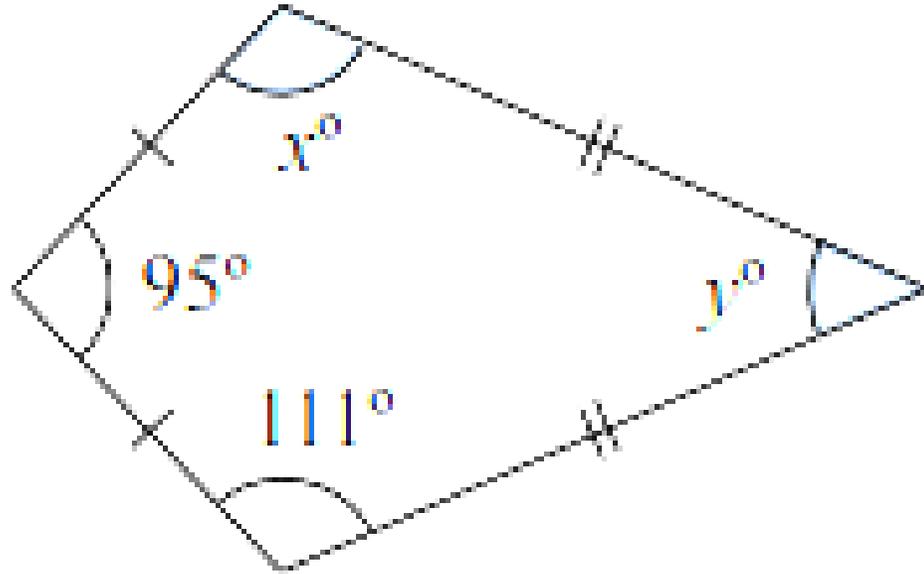


Calculate the missing angle and explain your calculation.



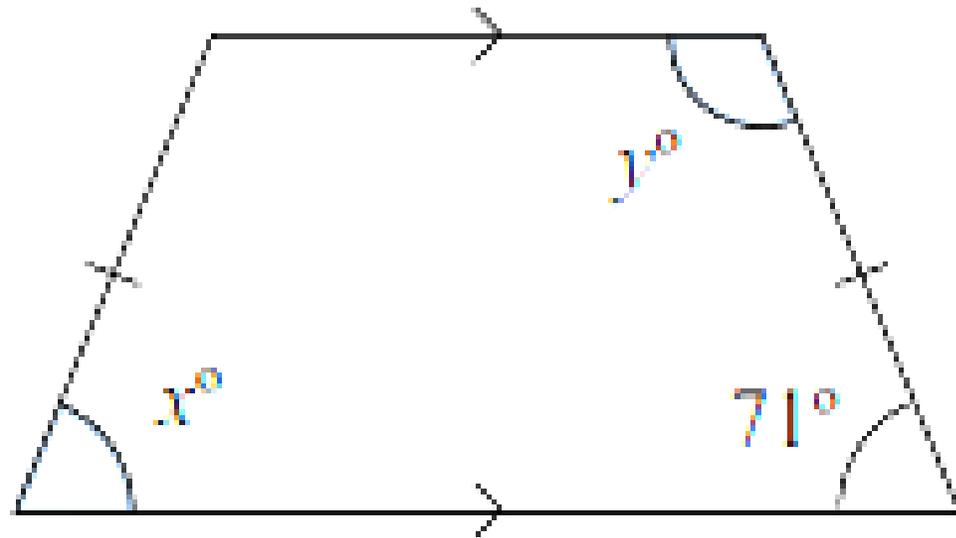


B2 This is a kite.



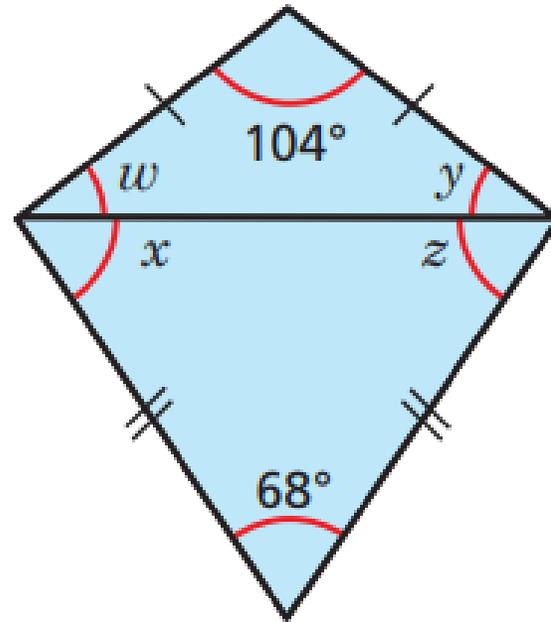
Work out the values of x and y

A3 This is an isosceles trapezium.



Work out the values of x and y

Two isosceles triangles are joined to form a kite.



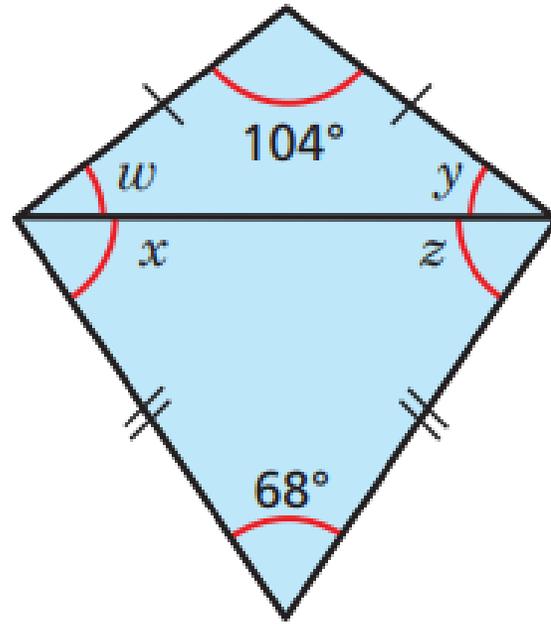
How is this shape different to the previous shapes?

What do we already know to help calculate the missing angles?

Calculate the missing angles

Two isosceles triangles are joined to form a kite.

a) Work out the sizes of the unknown angles.



How is this shape different to the previous shapes?

What do we already know to help calculate the missing angles?

