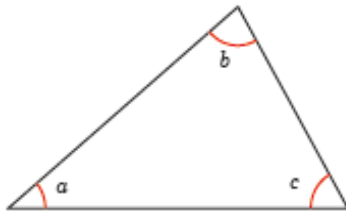


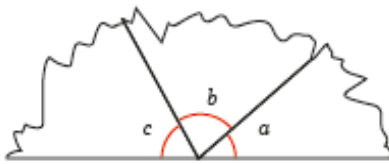
This week we are recapping on 2D and 3D shapes.

LO: To calculate angles in a triangle (bronze)

1 Here is a triangle.



a) The three vertices are torn off the triangle and arranged on a straight line.



What is the sum of the three angles?
How do you know?

2 Here is a triangle.



a) What type of triangle is it?

How do you know?

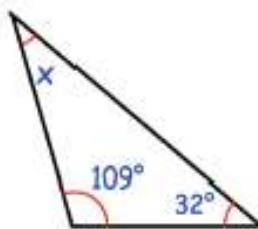
b) Work out the size of angle m .

c) What do you notice?

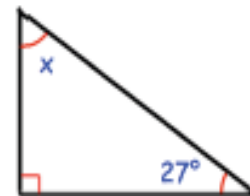
d) Complete the sentence to describe the angles in an isosceles triangle.

In an isosceles triangle _____

3 Calculate the size of angle x in this diagram

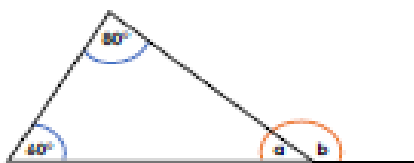


4 Calculate the size of angle x in this diagram



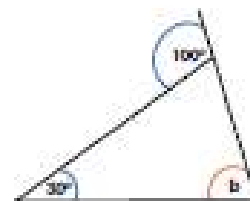
5 Kelly says:

It is impossible for me to calculate all of the missing angles.



6 Saskia thinks that angle b measures 60° . Oscar thinks that angle b measures 70° .

Who is correct? Explain why.



Is Kelly correct? Explain why.

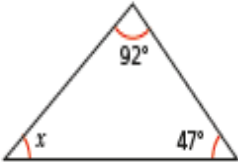
This week we are recapping on 2D and 3D shapes.

LO: To calculate angles in a triangle (silver)

1 Work out the sizes of the unknown angles.

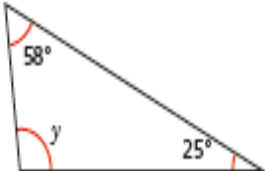
Give reasons for your answers.

a)



$x = \boxed{}$ because _____

b)

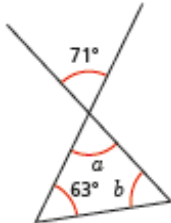


$y = \boxed{}$ because _____

2 Work out the sizes of the unknown angles.

Give reasons for each stage of your working.


a)



$a = \boxed{}$ because _____

$b = \boxed{}$ because _____

b)



$d = \boxed{}$ because _____


$e = \boxed{}$ because _____

$f = \boxed{}$ because _____

3 Dexter is working out the unknown angles in triangles.



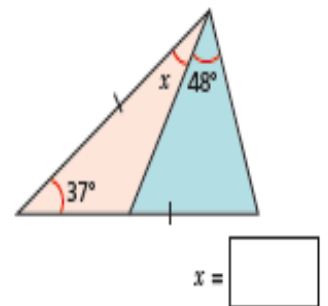
I can't work out either of the missing angles because I don't have enough information.



Do you agree with Dexter? _____

Explain your answer.

4 Work out the size of angle x .



5 Jamie draws a triangle.

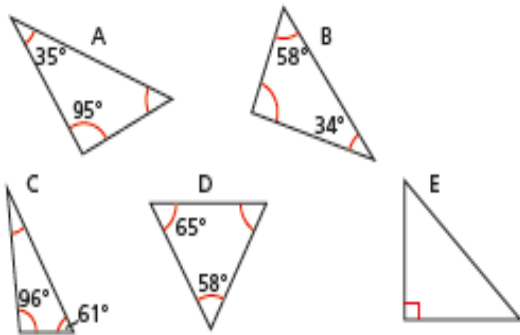
He says, *'Two of the three angles in my triangle are obtuse'*.

Explain why Jamie **cannot** be correct.

This week we are recapping on 2D and 3D shapes.

LO: To calculate angles in a triangle (gold)

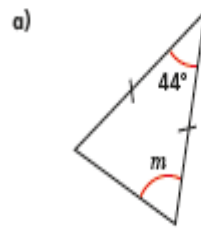
1 Sort the triangles into the table.



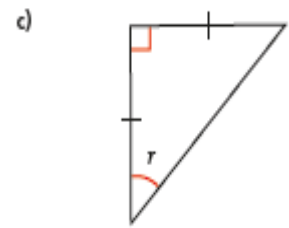
0 acute angles	1 acute angle	2 acute angles	3 acute angles

Are any of the columns empty? Why?

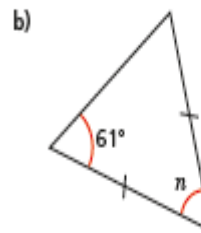
2 Work out the sizes of the unknown angles.



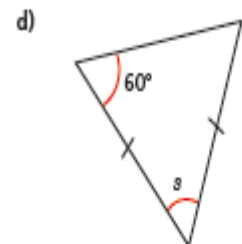
$m = \square$



$r = \square$

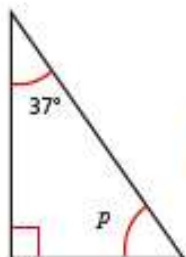


$n = \square$



$s = \square$

3



$p = 143^\circ$ because angles in a triangle sum to 180° and $180 - 37 = 143$



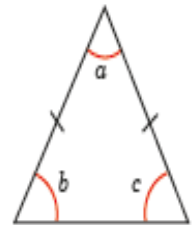
Do you agree with Ron? _____

Explain your answer.

4

Angle b is twice the size of angle a .

Work out the size of angle c .



\square

5

Work out the size of angle x .

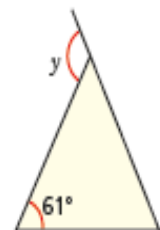


$x = \square$

6

Here is an isosceles triangle.

Find two possible sizes of angle y .



$y = \square$ or \square