

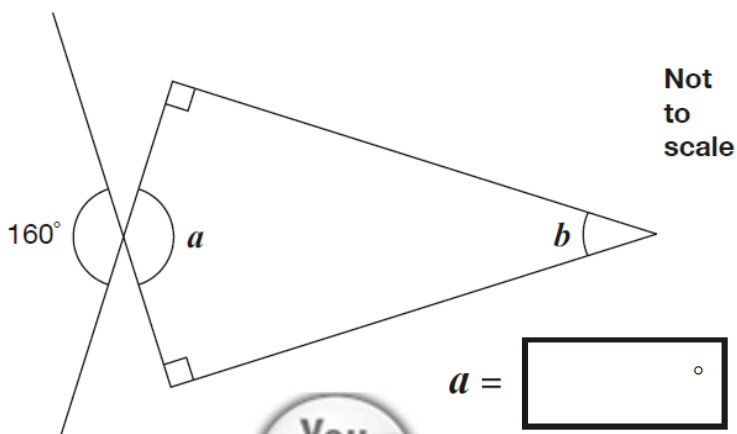


# ANGLES + LINES

Help Code : 029

17

Calculate the size of angles  $a$  and  $b$  in this diagram.



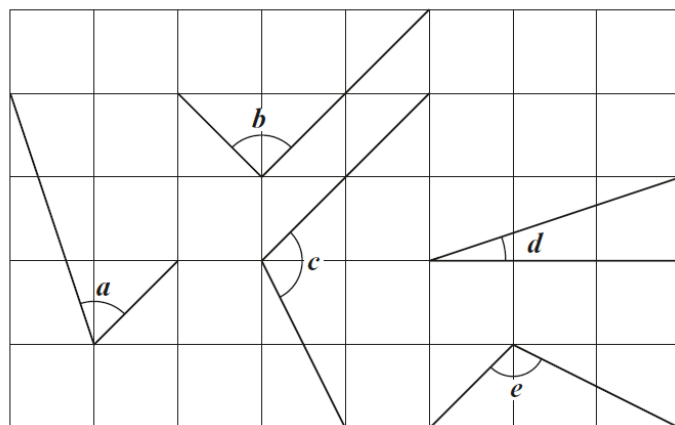
$a =$   °

$b =$   °



7

Here are five angles marked on a grid of squares.



Write the letters of the angles that are **obtuse**.

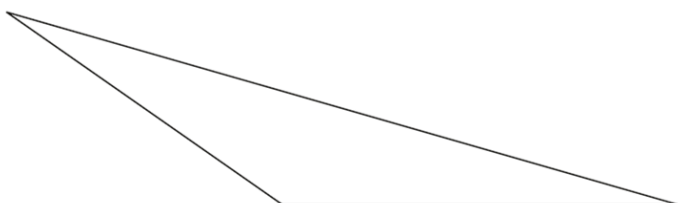
\_\_\_\_\_

Write the letters of the angles that are **acute**.

\_\_\_\_\_

9

Here is a triangle.



Measure the shortest side accurately, in centimetres.

cm

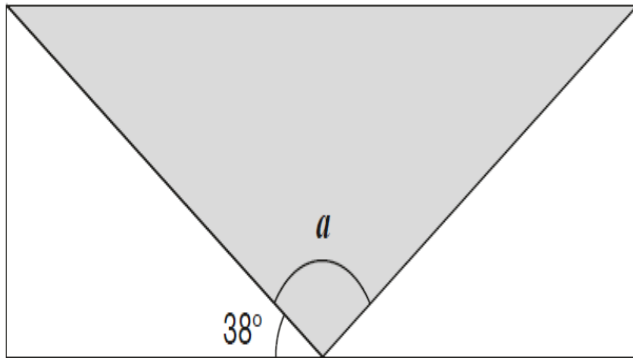
Measure the largest angle.

°



15

A shaded **isosceles** triangle is drawn inside a rectangle.

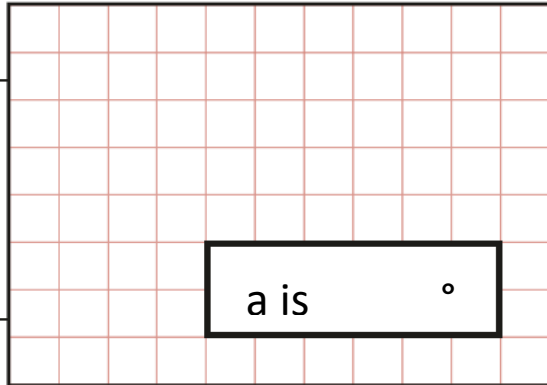


Not  
to  
scale

Calculate the size of angle  $a$ .



Show  
your  
method



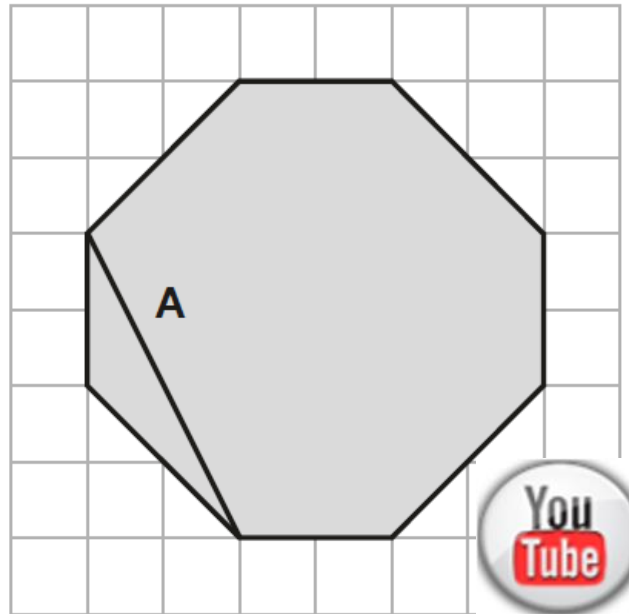
13

The diagram shows a shaded octagon on a square grid.

Line **A** joins two vertices of the octagon.

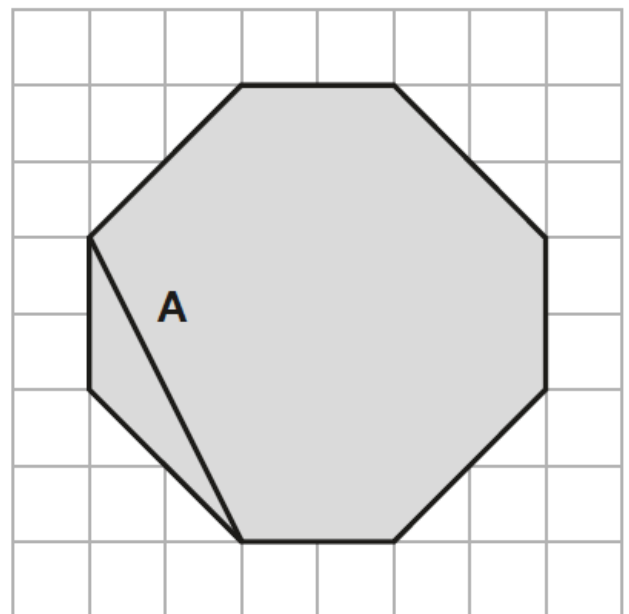
Join two other vertices to draw a line **parallel** to line **A**.

Use a ruler.



Join two vertices to draw a line **perpendicular** to line **A**.

Use a ruler.



# Y6 SATs

# Angles & Lines

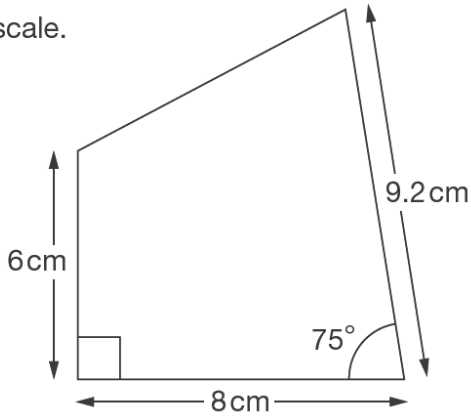
Help Code : 029

# BOOSTER

Here is a sketch of a quadrilateral.

2011A KS2 Q24

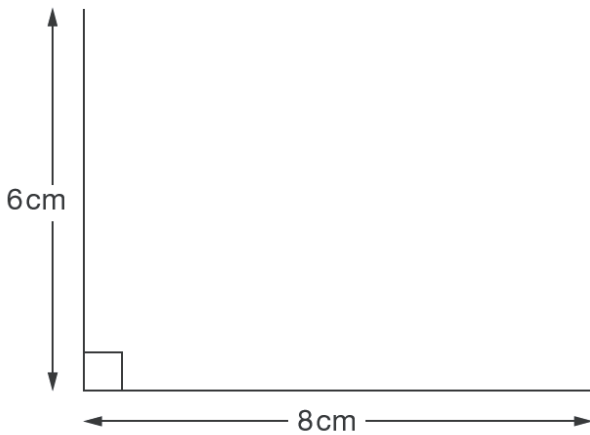
It is not drawn to scale.



Draw the full-size quadrilateral **accurately** below.

Use a protractor (angle measurer) and a ruler.

Two of the lines have been drawn for you.



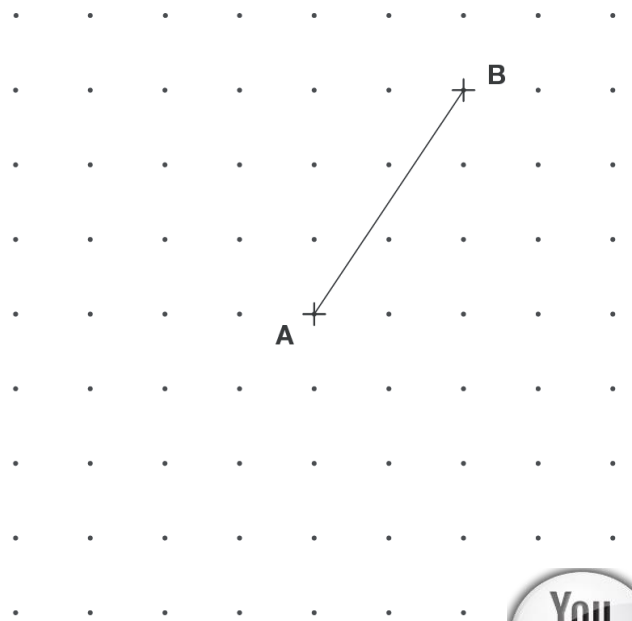
Here is a grid of dots.

2010A KS2 Q19

Point **A** and point **B** are joined by a straight line.

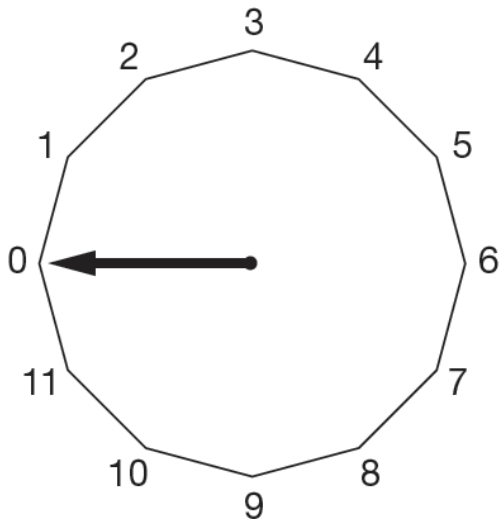
Draw a line to join point **A** to another dot on the grid so that the two lines make a right angle.

Use a ruler.



2008A KS2 Q18

This regular 12-sided shape has a number at each vertex.



Ben turns the pointer from zero, clockwise through  $150^\circ$

Which number will the pointer now be at?




Nisha turns the pointer clockwise from number 2 to number 11

Through how many degrees does the pointer turn?



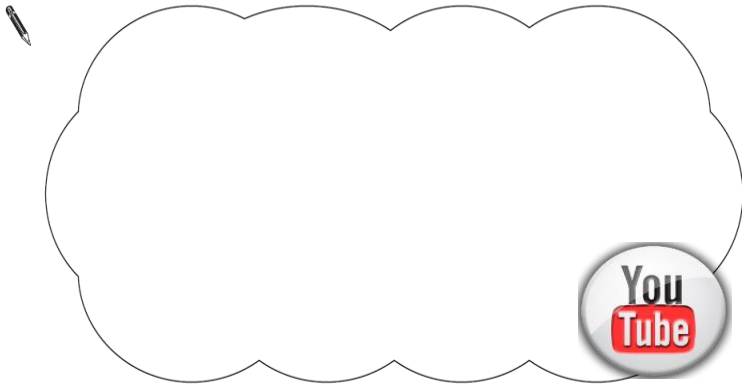
2007A KS2 Q25

Jamie draws a triangle.

He says,

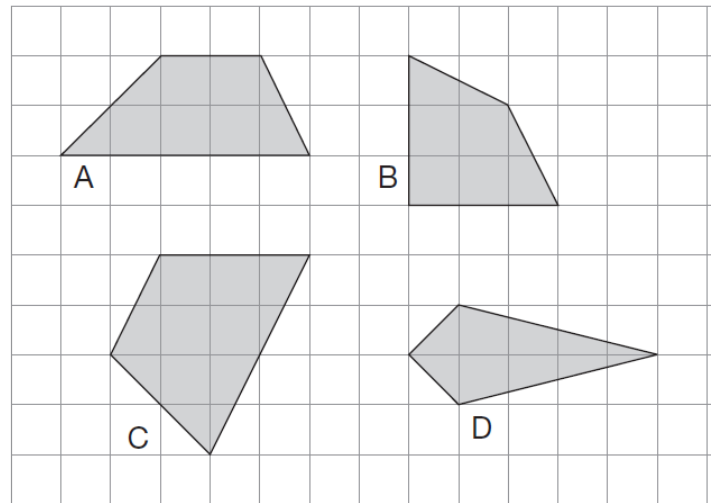
***'Two of the three angles in my triangle are obtuse'.***

Explain why Jamie **cannot** be correct.



2007A KS2 Q17

Here are some shapes on a grid.



Write the letter of each shape that has one pair of parallel sides.



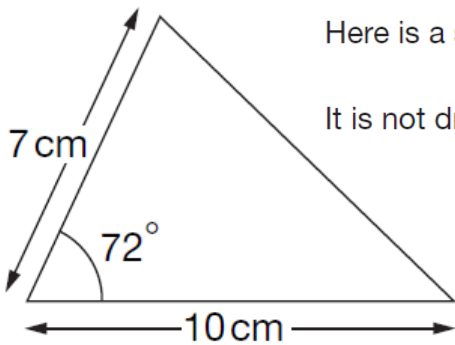
\_\_\_\_\_



2006A KS2 Q21

Here is a sketch of a triangle.

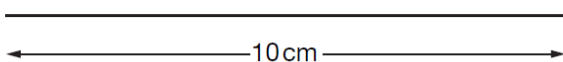
It is not drawn to scale.



Draw the full-size triangle **accurately** below.

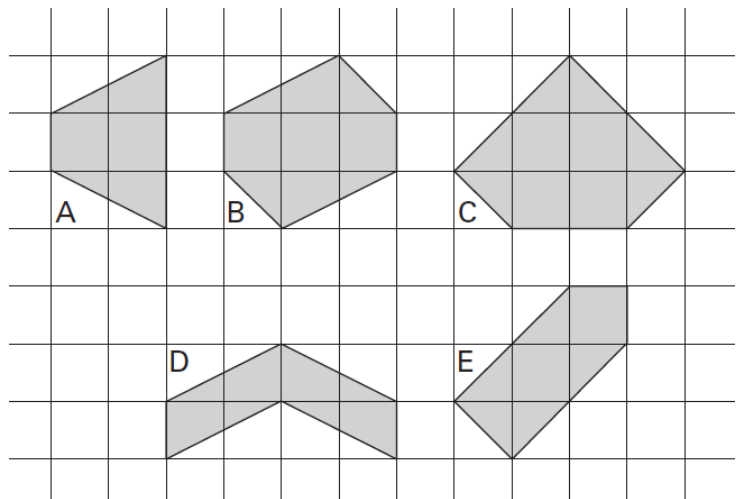
Use a protractor (angle measurer) and a ruler.

One line has been drawn for you.



2005A KS2 Q6

Here are some shaded shapes on a square grid.



Write the letters of the **two** shapes which are hexagons.



..... and .....

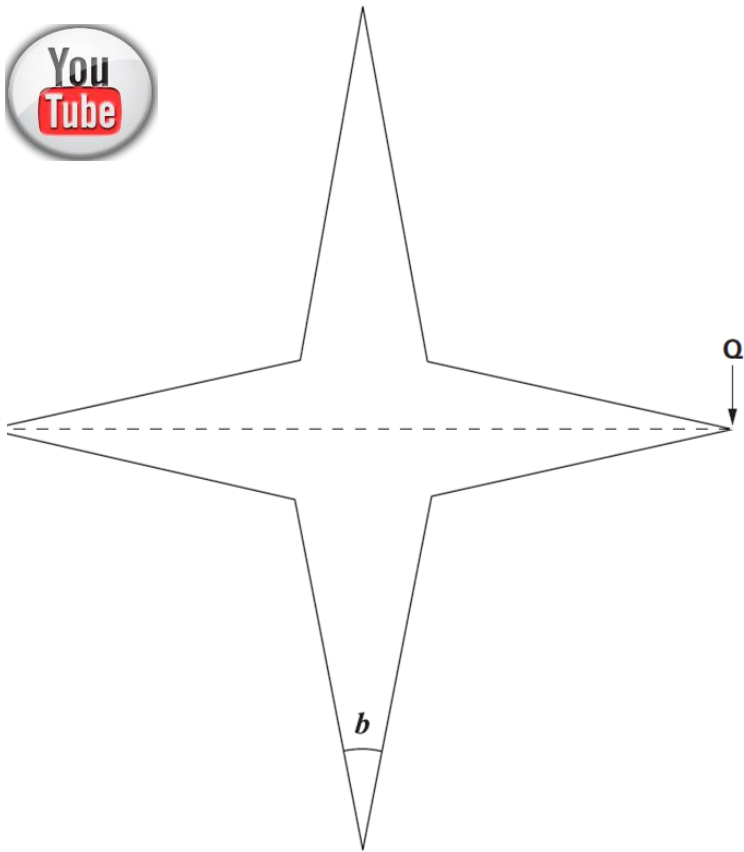
Write the letters of the **two** shapes which have right angles.



..... and .....

2005A KS2 Q17

Look at this star.



Use a ruler to measure **accurately** the **width** of the star, from **P** to **Q**.

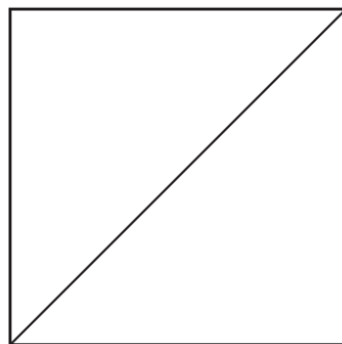
Give your answer in **millimetres**.

mm

Use a protractor (angle measurer) to measure **angle b**.

°

2004A KS2 Q4



Measure accurately the length of the **diagonal** of this square.

Give your answer in **centimetres**.

cm

2005A KS2 Q21



Here are four statements.

For each statement put a tick (✓) if it is **possible**. Put a cross (✗) if it is **impossible**.

A triangle can have 2 acute angles.

A triangle can have 2 obtuse angles.

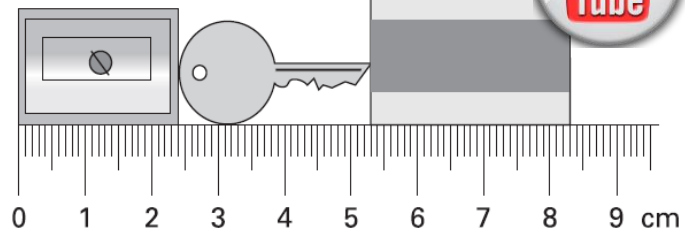
A triangle can have 2 parallel sides.

A triangle can have 2 perpendicular sides.

2002A KS2 Q13

Here are a pencil sharpener, a key and a rubber.

Actual size

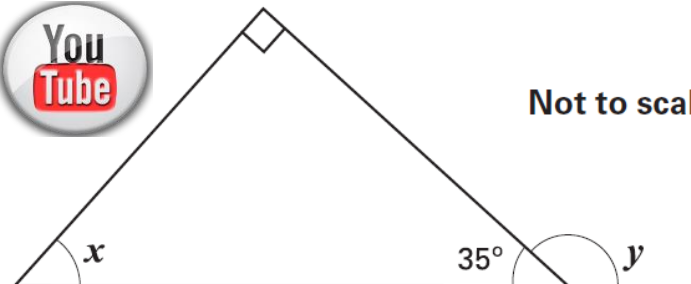


What is the length of **all three things** together?

Give your answer in **millimetres**.  mm

2002A KS2 Q23

Look at this diagram.



Calculate the size of angle **x** and angle **y**.

Do **not** use a protractor (angle measurer).

$x =$   °

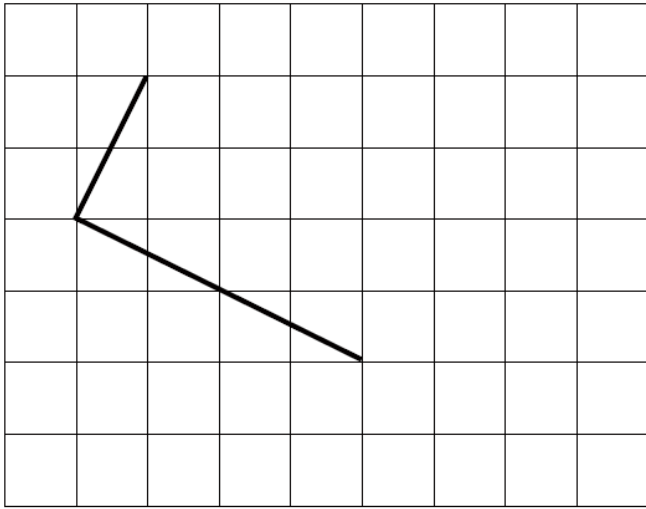
$y =$   °

2001A KS2 Q6



Draw **two more straight lines** to make a rectangle.

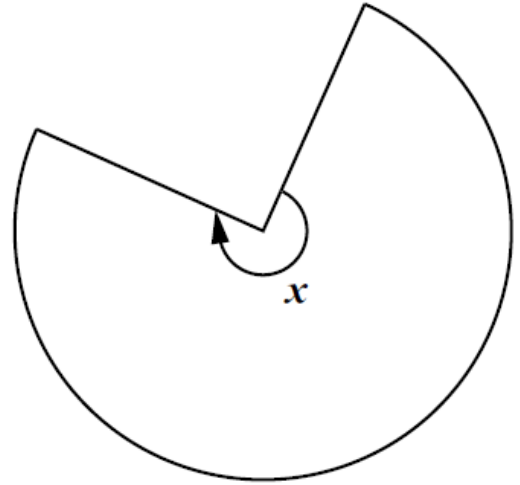
Use a ruler.



2001 KS2 Q13



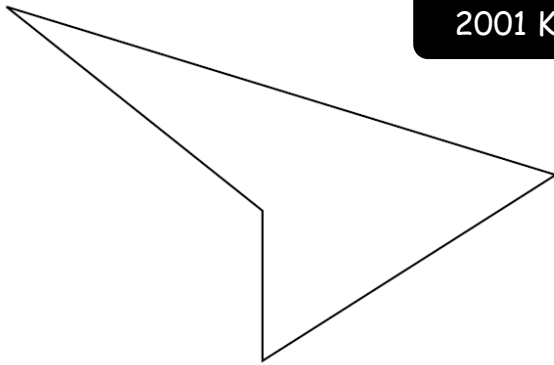
This shape is **three-quarters of a circle**.



How many degrees is **angle x**?



2001 KS2 Q17



Measure accurately the **longest side** of this shape.

Give your answer in millimetres.



Measure accurately the **smallest angle** in the shape.

Use a protractor (angle measurer).

