

Year 6 Maths Home Learning

Week nine includes:

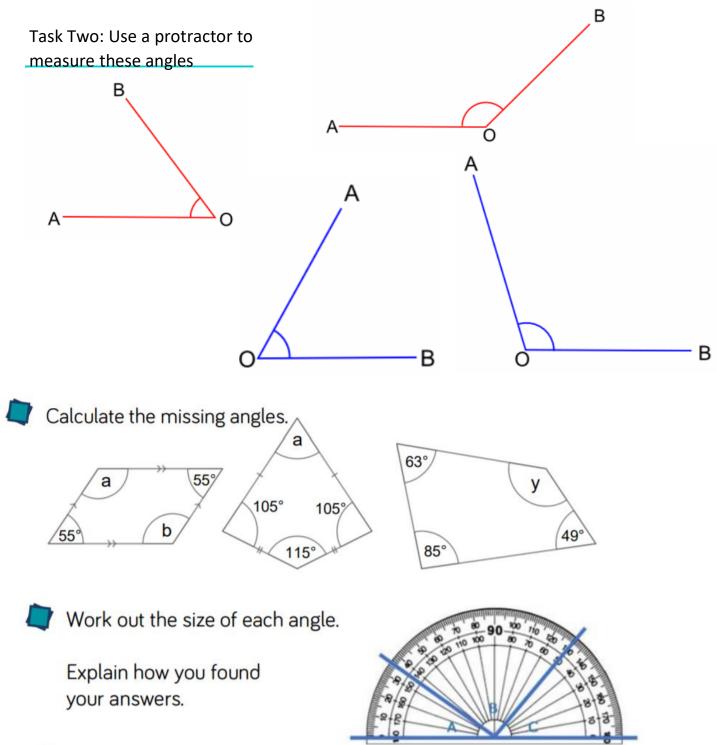
- Maths I do you do read the Angles PowerPoint and recap your angles facts(40 minutes)
- Practice questions (30 minutes)
- Evidence questions (30 minutes)
- Reasoning questions SATS style questions (as long as it takes!)

### Practice Questions

Task One:

Using a protractor and ruler draw:

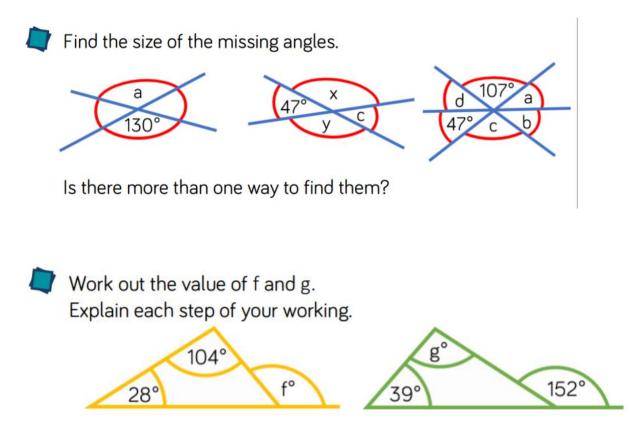
- A square with sides 4cm long
- A right angled triangle with an angle of 43° and a base of 6cm





## Complete the table.

Angle	Fraction of a full turn	Degrees
Right angle	$\frac{1}{4}$	90°
Straight line	•	
Three right angles		
Full turn		



# Evidence Questions

If it takes 60 minutes for the minute hand to travel all the way around the clock, how many degrees does the minute hand travel in:

- 7 minutes
- 12 minutes

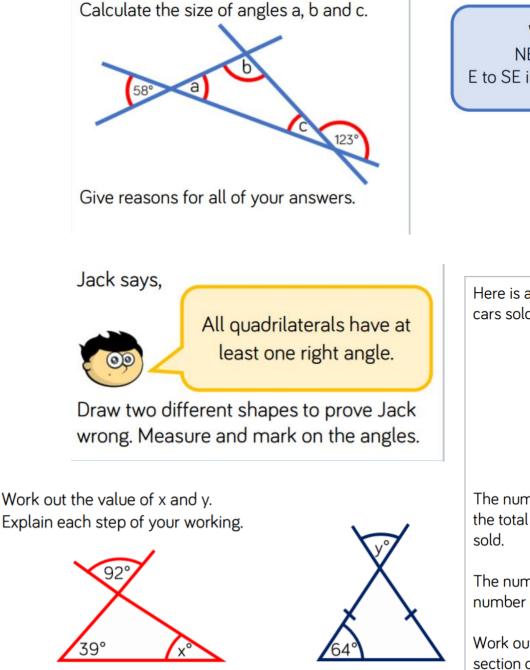
How many minutes have passed if the minute hand has moved 162°?

There are five equal angles around a point.

What is the size of each angle?

Explain how you know.

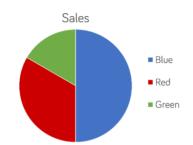
# Always, sometimes, never.



W to S = 90 degrees NE to SW = 180 degrees E to SE in a clockwise direction  $> 90^{\circ}$ 



Here is a pie chart showing the colour of cars sold by a car dealer.



The number of blue cars sold is equal to the total number of red and green cars sold.

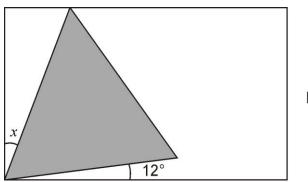
The number of red cars sold is twice the number of green cars sold.

Work out the size of the angle for each section of the pie chart.

## **Reasoning**

### Q1.

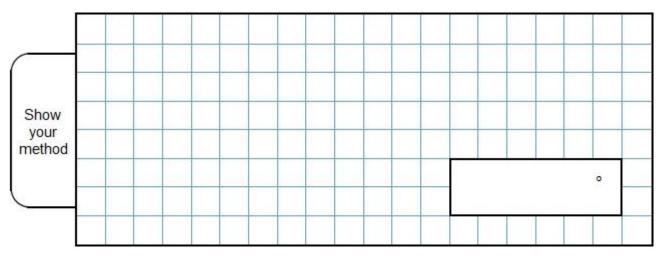
Here is an equilateral triangle inside a rectangle.



Not to scale

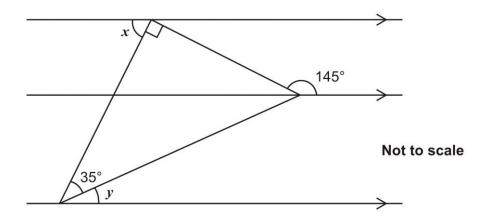
Calculate the value of angle  $\boldsymbol{X}$ .

Do not use a protractor (angle measurer).



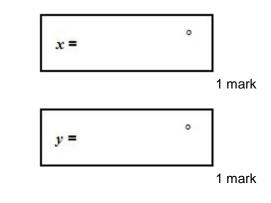
2 marks

The diagram shows a right-angled triangle and three parallel lines.



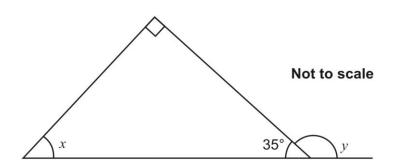
Calculate the size of angle x and angle y

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



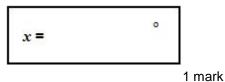
#### Q3.

Look at this diagram.

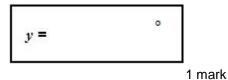


Calculate the size of angle x and angle y.

Do not use a protractor (angle measurer).



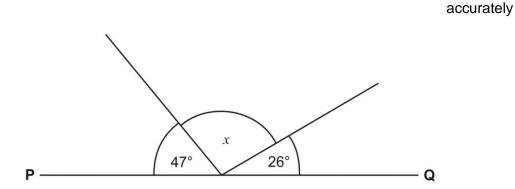
Q2.



Not drawn

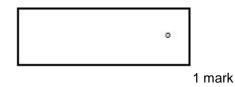
### Q4.

PQ is a straight line.



**Calculate** the size of angle *X*.

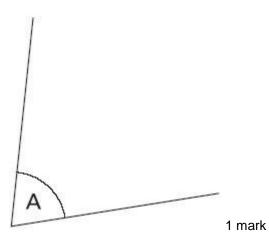
Do not use a protractor (angle measurer).



### Q5.

Measure **angle A** accurately.

Use a protractor (angle measurer).

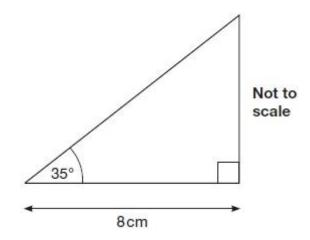




Q6.

Here is a sketch of a triangle.

It is not drawn to scale.



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

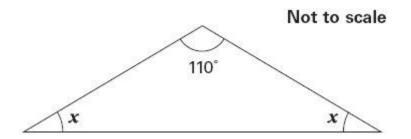
Use an angle measurer (protractor) and a ruler.

One line has been drawn for you.



#### Q7.

Here is an isosceles triangle.

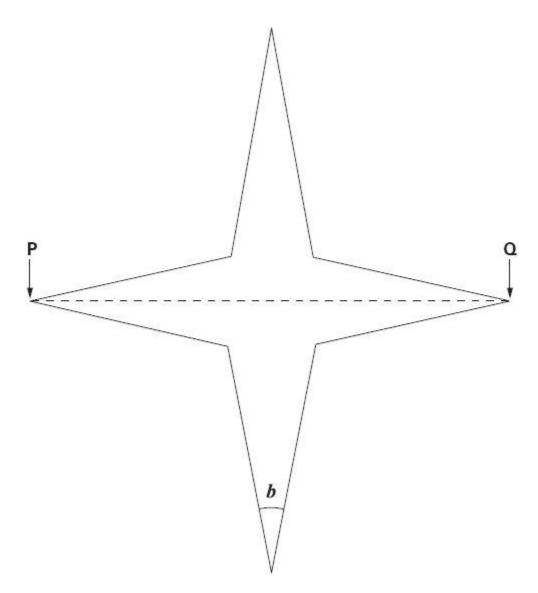


Calculate the size of angle *x*.

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

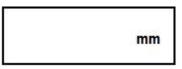


Look at this star.



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

Give your answer in **millimetres**.



1 mark

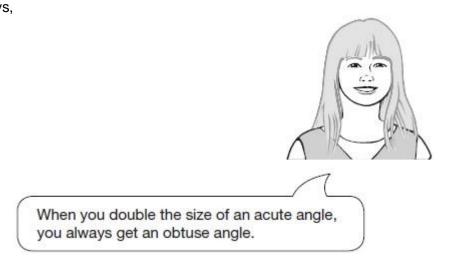
Use a protractor (angle measurer) to measure **angle** *b*.



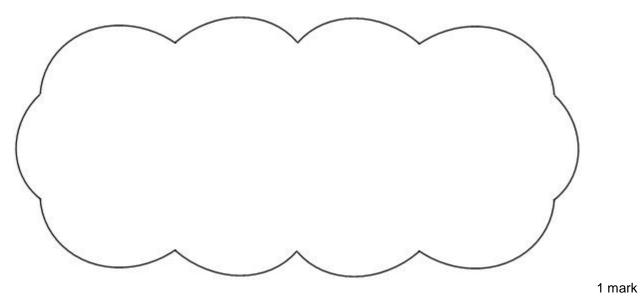
#### Q8.

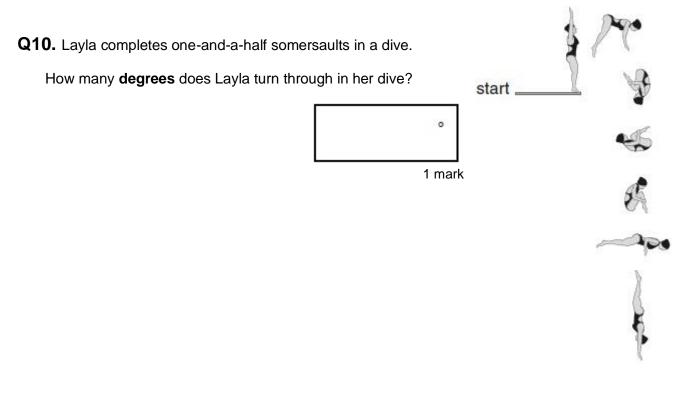
1 mark

Kirsty says,

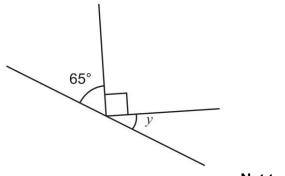


Explain why Kirsty is **not** correct.





Q11.



Not to scale

Calculate the size of angle y in this diagram.

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

