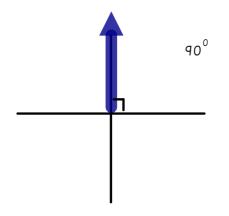
Hello again Year 5,

I have seen on class pages that you have also been working on angles with your class, as well as with me. I hope my videos have been helpful to you.

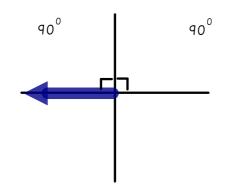
Today we are going to look at angles on a straight line and angles around a point.

Jun 26-11:10



In our earlier work we looked at turning a full circle/full turn.

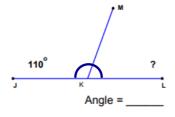
We looked at quarter turns and half turns.



Hopefully, gram this you can see that a straight line angle is 180°

Jun 26-11:13

So on these questions, we can use our knowledge that angles on a straight line equal 180 in order to find missing angles on an image - without the use of a protractor.



The two angles together make a straight line, which we know is 180°

If one of the angles is 110°

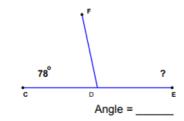
The missing angle must be the diggerence between 110 and 180

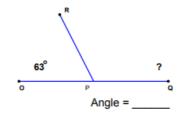
We gind the diggerence between two numbers by subtracting one grom the other

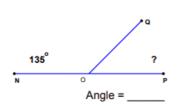
0

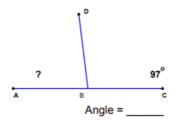
180 - 110 = 70, so the missing angle is 70°

Here are some more to try...

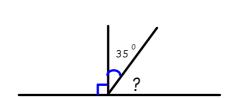








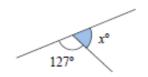
Jun 26-11:33



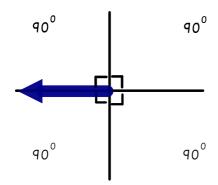
How do you think you work out the missing angle now?

Can you gird the value of x in each of these examples?





Jun 26-11:41



Now let us think about a full circle or a full turn.

That would be the same as 4 quarter turns.

4 lots of $90^{\circ} = 360^{\circ}$

Calculate angle a.

As we know the angles in a gull circle or a gull turn would = 360°

we can work out 'a'
by first adding up the
other angles we have
been given, then
finding the difference
between that answer
and 360°

Jun 26-11:53

Can you gind the value of x in these examples?

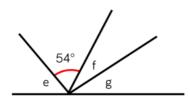






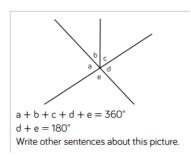






- The total of angle f and g are the same as angle e
- Angle e is 9° more than the size of the given angle.
- Angle f is 11° more than angle g

Calculate the size of the angles.



Jack is measuring two angles on a straight line.

My angles measure 73° and 108°

Explain why at least one of Jack's angles must be wrong.

Jun 26-12:03

e = 63°

$$f = 37^{\circ}$$

$$g = 26$$
 $^{\circ}$

Various answers e.g.

$$a + b + c = e + d$$

$$360^{\circ} - e - d =$$

180°

etc.

Answers