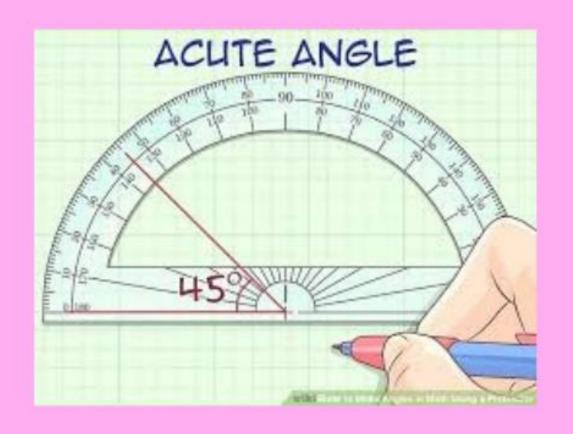
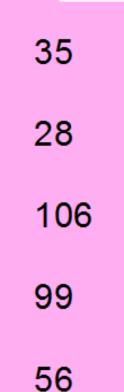
## 09.02.21

# L.O. I can identify angles on a straight line.



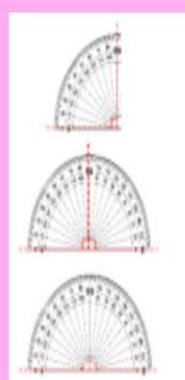


Find the factors for these numbers (remember to work systematically)





## Thinking back to yesterday, can we solve these?



There are \_\_\_\_\_degrees in a right angle.

There are \_\_\_\_\_right angles on a straight line.

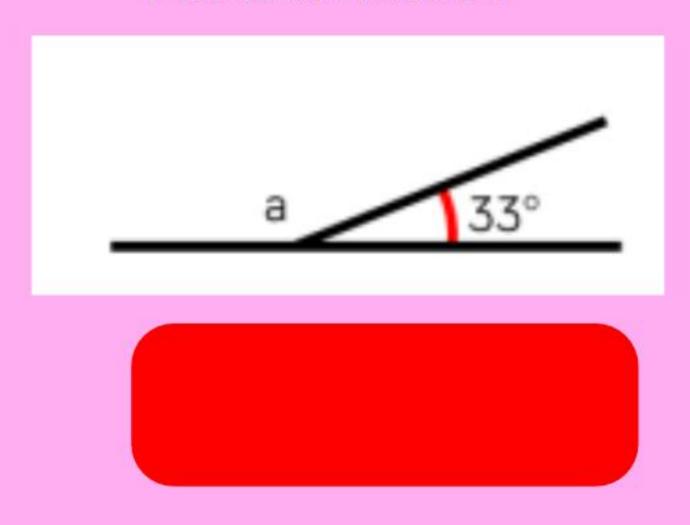
There are \_\_\_\_\_degrees on a straight line.

# Complete the number sentences.

Why is this important to help us find the value of missing angles?

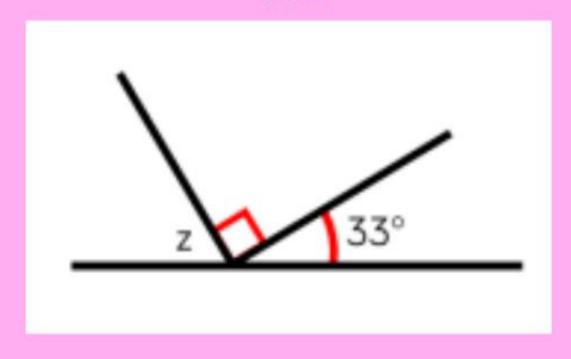
# Calculate the missing angle. 77°

## How about this one?

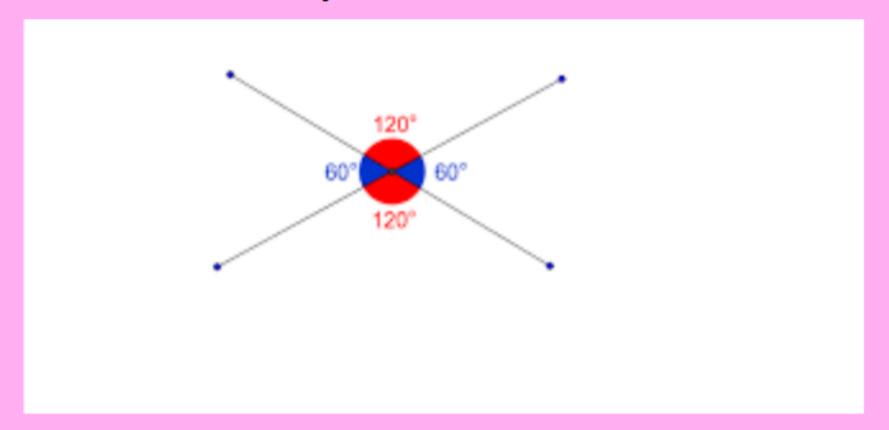


# Calculate the missing angle. 78° 49°

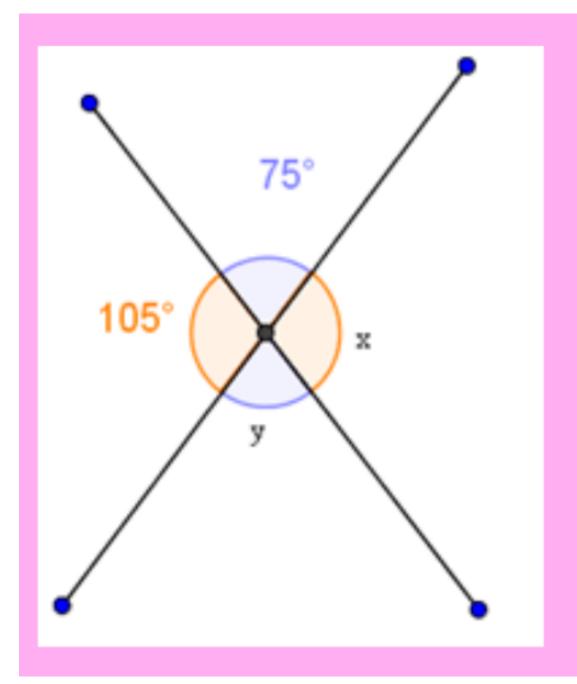
What prior knowledge do we have, that could help us solve this?



# What do you notice about this?



Opposite angles are equal.



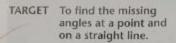
Using that fact, how do we find the values of x and y?



Your task today is to find the missing values.

Read the questions carefully - there are some that need you to think about differently!

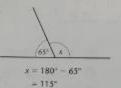
Make sure you show your working out.



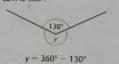
Examples

ANGLES ON A STRAIGHT LINE

The sum of the angles at a point on a straight line is 180°.



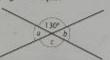
ANGLES AT A POINT A whole turn is 360°.



OPPOSITE ANGLES

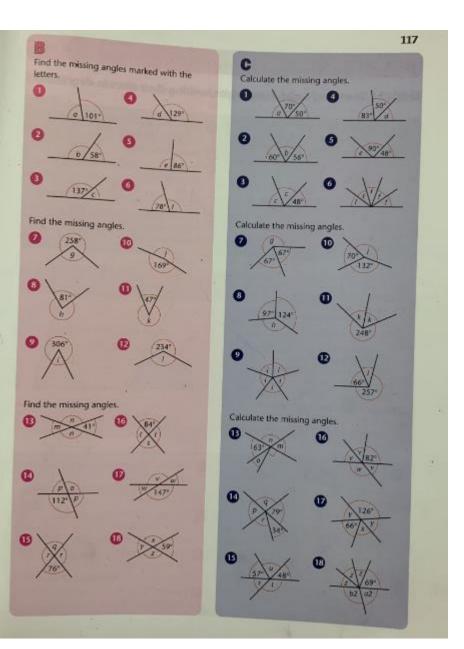
When two straight lines intersect at a point opposite angles are equal.

= 230°



$$b = 180^{\circ} - 130^{\circ}$$
  
= 50°





### Class challenge!

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.

