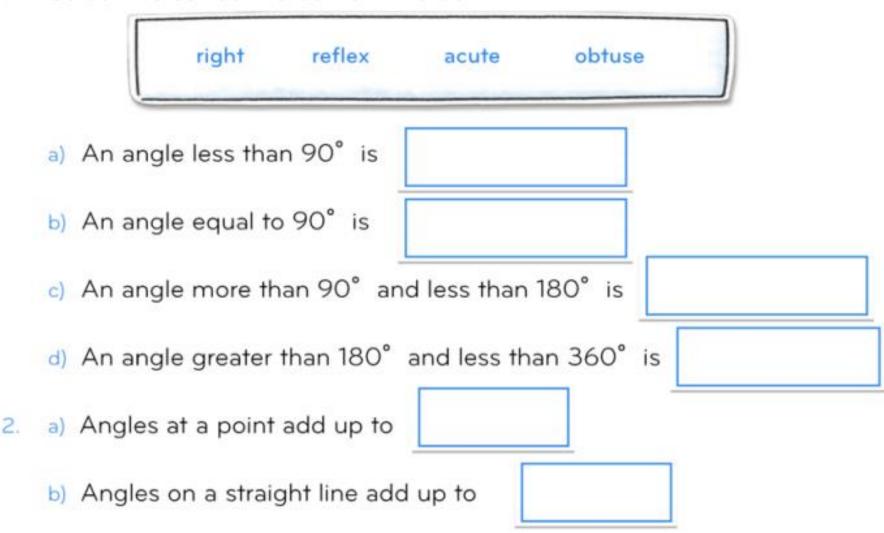
Warm your brains up thinking about the following questions:

## Warm Up Challenge

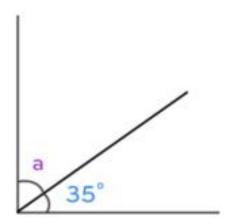
Select the correct words from the box.



### Find the missing angle.

The right angle is divided into two angles.

You can use letters to represent the angles. Let a stand for the missing angle.



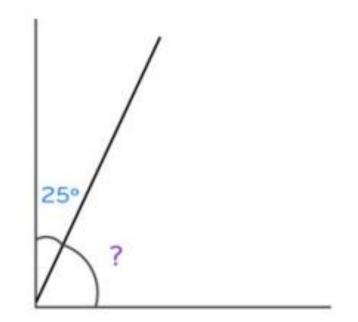
To find a missing angle in a right angle, you can subtract the given angle from 90. So, you know:

$$a = 90 - 35$$

So, the missing angle measures



Find the missing angle.



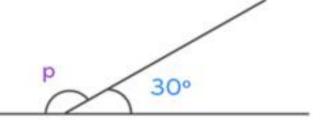


#### Find the missing angle.

The straight angle is divided into two angles.

You can use letters to represent the angles.

Let p stand for the missing angle.



To find a missing angle in a straight angle, you can subtract the given angle from 180. So, you know:

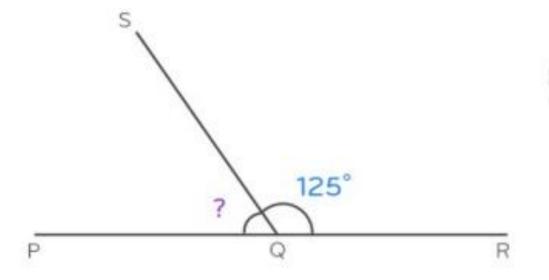
$$p = 180 - 30$$

So, the missing angle measures



Find the missing angle.



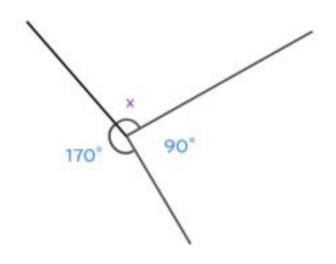




### Find the missing angle.

Angles around a point add up to 360°.

You can use letters to represent the angles. Let x stand for the missing angle.



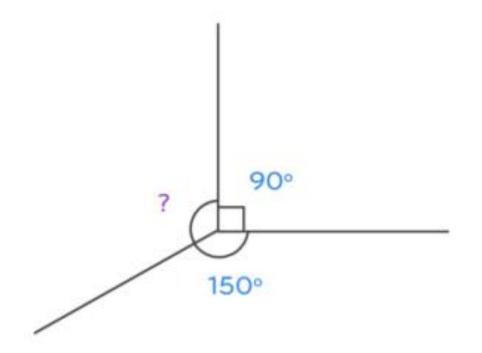
To find the missing angle add the given angles and subtract the total from 360. So, you know:

$$x = 360 - (170 + 90)$$

So, the missing angle measures



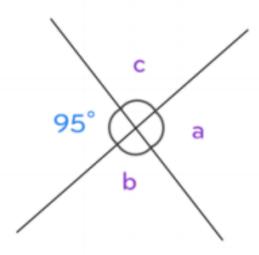
Find the missing angle.

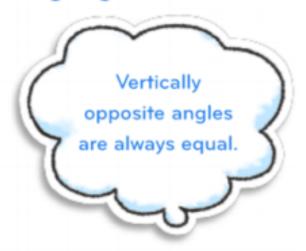




Vertically opposite angles are formed when two straight lines cross.

You can also use vertically opposite angles to find missing angles.





Angle a is vertically opposite a 95° angle. So, angle a =

Angle b = 180 - 95, so angle b =

Angle c is vertically opposite angle b. So, angle c =

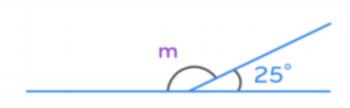
## Practice time

1. Find the missing angles.

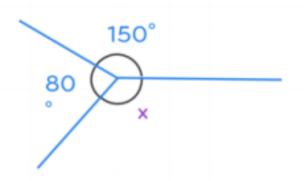
a)



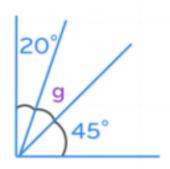
b)



c)

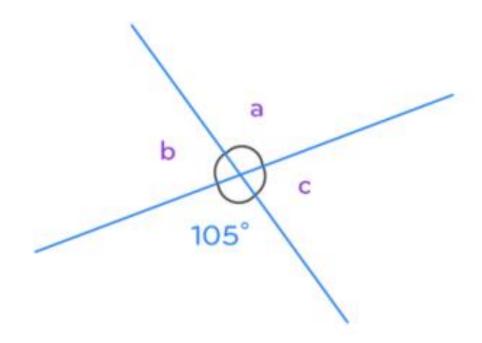


d)



## Practice time

Find the missing angles.

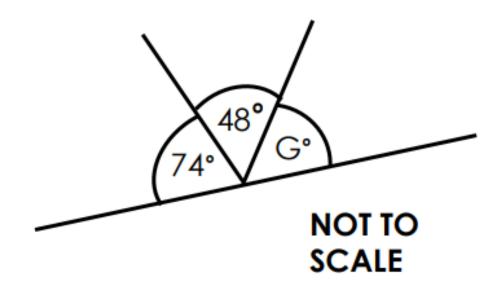


### Practice time

3. Maya measures three angles around a point. If one angle measures 45° and one angle measures 90°, what is the measure of the third angle?

4. If a right angle is divided into three angles of equal size, what is the size of each angle? Tickle that brain of yours a little further with the following mastery question...

# Explain the mistakes



Calculate the size of angle G

### Mistake 1

#### Mistake 2

$$74^{\circ} + 48^{\circ} = 122^{\circ}$$

#### Mistake 3