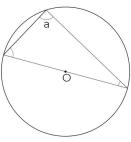
Maths



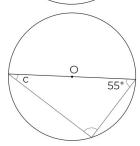
1. Work out the size of each angle marked with a letter.

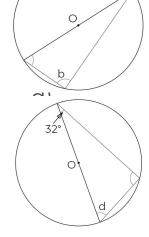
Give a reason for your answers.

a)



C)

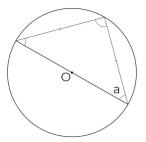




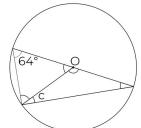
2. Work out the size of each angle marked with a letter.

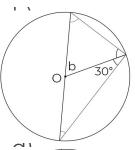
Give a reason for your answers.

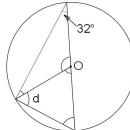
a)



C)

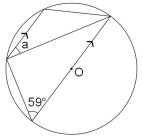




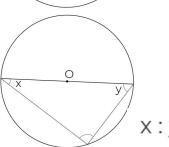




3. Work out the size of angle a.



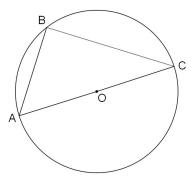
4



x: y = 2:7

Work out angles x and y

5. Prove that the angle in a semicircle is 90°.





## **Answers**

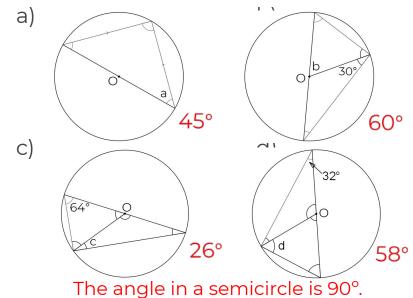


1. Work out the size of each angle marked with a letter.

Give a reason for your answers.

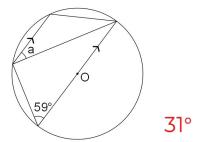
a) 90° 90° C) 32° 55° 35° 58° The angle in a semicircle is 90°. 2. Work out the size of each angle marked with a letter.

Give a reason for your answers.





3. Work out the size of angle a.



4. x: y = 2:7Work out angles x and y

5. Prove that the angle in a semicircle is 90°.



Let angle OBA = x and OBC = y so ABC = x + y angle OBA = angle OAB = x (base angles in an isosceles triangle) angle OBC = angle OCB = y (base angles in an isosceles triangle) angle OAB + angle ABC + angle OCB =  $180^{\circ}$  (angles in a triangle add up to  $180^{\circ}$ )

$$x + x + y + y = 180$$
  
 $2x + 2y = 180$   
 $2(x + y) = 180$   
 $x + y = 90$ 

