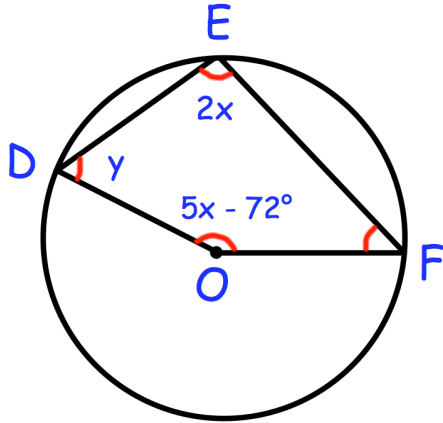


20th June



Corbettmaths

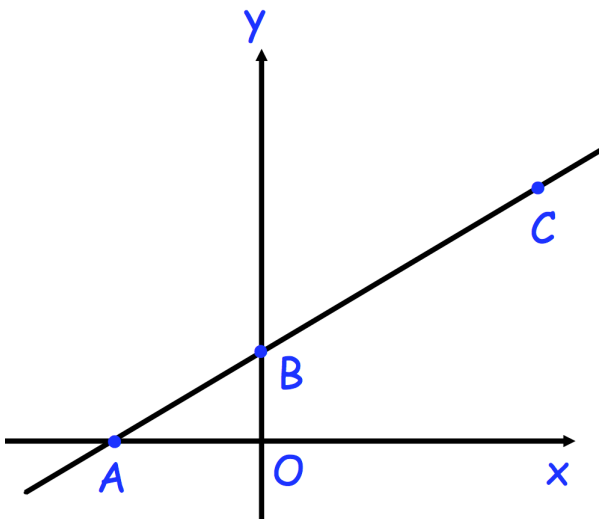
$$\frac{1}{7} \text{ of } 2y = 64\% \text{ of } (y - 77.5)$$

Work out the value of  $y$ 

The points D, E and F are points on a circle, centre O.  
 Angle DEF =  $2x$   
 Angle DOF =  $5x - 72^\circ$   
 Angle EDO =  $y$   
 Angle EFO is  $14^\circ$  smaller than angle DEF

Work out the value of  $y$ 

A, B and C are points on the line  
 $5x + 4y + 12 = 0$



$$AB : BC = 2 : 9$$

Work out the area of triangle OBC.