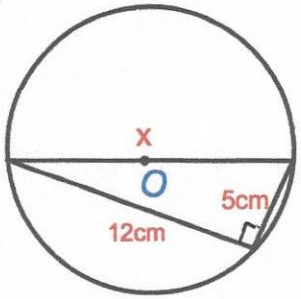
Name: _____ 5-a-day Higher

27th December

Corbettmaths



Find x

$5^2 + 12^2 = 169$

$x^2 = 169$

$x = 13$ cm

x is 3/5 of y
x is 2/3 of z

Write down the ratio of x : y : z

6 : 10 : 9

$x = \frac{3}{5}y$ $x = \frac{2}{3}z$

$5x = 3y$ $3x = 2z$

x : y = 3 : 5 = 6 : 10

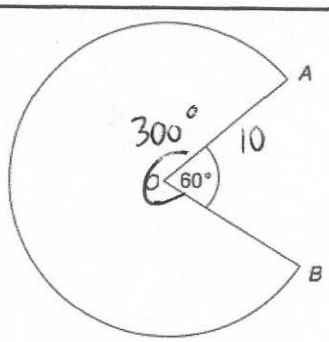
x : z = 2 : 3 = 6 : 9

Solve $x^2 + x = 12$

$x^2 + x - 12 = 0$

$(x + 4)(x - 3) = 0$

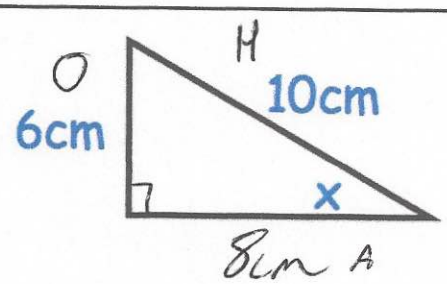
$x = -4$ or $x = 3$



Angle AOB is 60° and OA is 10cm.
Find the area of the sector.

$\frac{300}{360} \times \pi \times 10^2$

261.8cm^2



Shown is a right angled triangle.

Find the size of Cos x

$\cos x = \frac{A}{H}$

$\cos x = \frac{8}{10} = \frac{4}{5}$