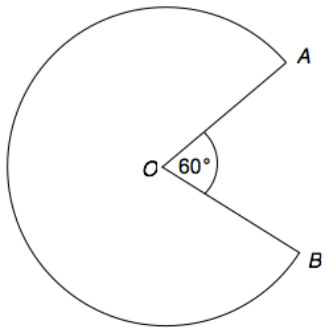
Name: _____ 5-a-day Higher

30th September

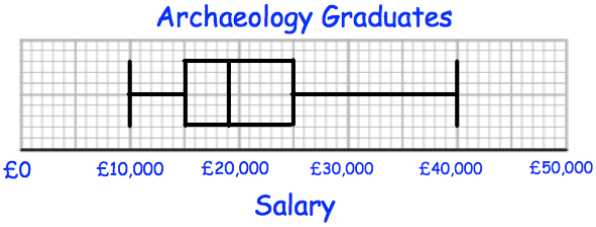
Corbettmaths

Work out the equation of the line passing through A (0, 1) and B (2, 4).

Write down the equation of the line perpendicular to AB and passing through (0, 7)



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



Write down the value of the range

Solve

$$\frac{x}{2} + \frac{4x+1}{10} = -8$$

Material A has a density of 5.8g/cm³.
Material B has a density of 4.1g/cm³.

377g of Material A and 1.64kg of Material B form Material C.

Work out the density of Material C.