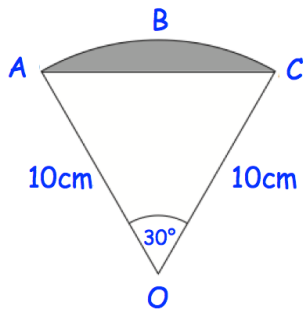


19th April



Corbettmaths



Find the area of segment ABC

Weight (x kg)	Frequency
$60 < x \leq 64$	10
$64 < x \leq 68$	20
$68 < x \leq 72$	30
$72 < x \leq 76$	15
$76 < x \leq 80$	18
$80 < x \leq 84$	7

The weights of some rugby players are recorded in the table.

Find the median by using linear interpolation.

Two players are chosen at random. Calculate the probability that both players are over 80kg

Find the set of values of x for which  $x^2 - 36 > 0$  and  $x^2 + 4x - 21 > 0$

The line  $l$  is a tangent to the circle  $x^2 + y^2 = 90$  at the point P. P is the point (3, 9) The line  $l$  crosses the x-axis at the point Q.

Work out the area of triangle OPQ.