
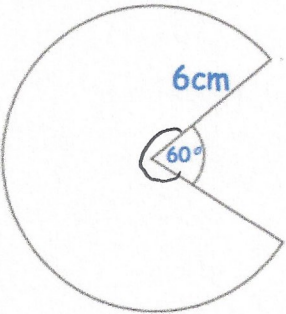


15th August		 Corbettmαths
<p>Solve the simultaneous equations</p> $\begin{aligned} 6x + 4y &= 3 & \times 3 \\ 2x - 3y &= 14 & \times 4 \end{aligned}$ $\begin{aligned} 18x + 12y &= 9 \\ 8x - 12y &= 56 \end{aligned}$	$\begin{aligned} 26x &= 65 \\ x &= 2.5 \end{aligned}$ $\begin{aligned} 15 + 4y &= 3 \\ 4y &= -12 \\ y &= -3 \end{aligned}$	$\begin{aligned} x &= 2.5 \\ y &= -3 \end{aligned}$
<p>Work out, giving your answer in standard form</p> $(8.2 \times 10^6) - (3.51 \times 10^5)$	$\begin{array}{r} 7820000 \\ - 351000 \\ \hline 7469000 \end{array}$	$7.469 \times 10^6$
<p>Write as a fraction.</p> $5^{-3}$	$\frac{1}{125}$	<p>Evaluate</p> $25^0$
<p>Simplify fully</p> $\frac{4x^2 - 25}{6x^2 - 11x - 10}$	$\frac{(2x-5)(2x+5)}{(2x-5)(3x+2)}$ $\frac{2x+5}{3x+2}$	
	<p>Calculate the perimeter of the sector.</p> $\frac{300}{360} \times \pi \times 12 + (6 + 6)$ $= 43.416 \text{ cm}$	