
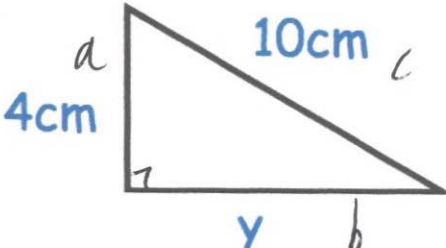
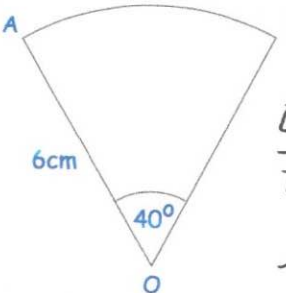


15th January		 Corbettm0ths
<p>Simplify</p> $5(x + 3) + 2x - 4$ $5x + 15 + 2x - 4$	$7x + 11$	
<p>Work out</p> $8\frac{1}{3} \div \frac{4}{7}$ $\frac{25}{3} \div \frac{4}{7}$ $\frac{25}{3} \times \frac{7}{4} = \frac{175}{12}$	$= 14\frac{7}{12}$	
	<p>Calculate the length of y for this right-angled triangle</p> $a^2 + b^2 = c^2$ $4^2 + y^2 = 10^2$ $16 + y^2 = 100$ $y^2 = 84$ $y = 9.165\text{cm}$	
<p>There are red, green and blue beads in a bag.</p> <p>The ratio of red beads to green beads is 2:5</p> <p>The ratio of green beads to blue beads is 1:3</p> <p>Work out the ratio of red beads to blue beads</p> $R : G \quad G : B$ $2 : 5 \quad 1 : 3 \quad (\times 5)$ $\underline{5 : 15}$	$R : B$ $2 : 15$	
 $\frac{40}{360} \times \pi \times r^2$ $\frac{1}{9} \times \pi \times 6^2$	<p>Find the area of the sector.</p> <p>Give your answer in terms of π.</p> $\frac{1}{9} \times \pi \times 36$ $4\pi \text{ cm}^2$	