











				Name:		
Estimate the mean height of the tomato plants.				The equation $x^3 + 3x = 111$ has a solution between 4 and 5.		
Height (cm)	Frequency	Mid P	fx	Use Trial and improvement to find this solution. Give your answer to 1 d.p.		
$0 \le h < 10$	8			<b>x value</b> $x^3 + 3x$ <b>Big/Small</b>		
$10 \le h < 30$	17					
$30 \le h < 40$	15					
$40 \le h < 50$	10					
$Mean = \frac{\sum fx}{\sum f}$	Gold ★			$x = \ Gold \checkmark$		
3 cakes and 2 coffees cost £8.50. 5 Cakes and 4 coffees cost £15.50. Calculate the cost of a cake and coffee?				Factorise fully $x^{2} + 4x + 3$ Now find the solutions for $x^{2} + 4x + 3 = 0$		
Gold ★				Gold ★		
Mr P goes for a bike ride. He rides 45 miles in 1 hour and 15 minutes. Calculate Mr P's average speed.				Calculate 1) $\sqrt{5} \times \sqrt{7}$ 2) $\sqrt{3}(4 - \sqrt{7})$ 3)(5 + $\sqrt{3}$ )(7 + $\sqrt{3}$ ) Rationalise the denominator $\frac{5}{-1}$		
Platinum www.missbsresources.com				$\overline{\sqrt{7}}$ Platinum $\checkmark$		