

Question	Working	Answer	Mark	Notes	Sub-Total	Total
10	19.45 or 19.35 or 2.35 or 2.45		B1		3	
	$(b =) 19.45 - 2 \times 2.35$		M1	Or for $UB_1 - 2 \times LB_2$ or $UB_1 = 2 \times LB_2 + b$ where $19.4 < UB_1 \leq 19.5$ & $2.3 \leq LB_2 < 2.4$		
		14.75	A1			
11	$3(x^3 + a) = 4(c - x^3)$ oe $3x^3 + 4x^3 = 4c - 3a$ or $3a - 4c = -4x^3 - 3x^3$		M1		3	
			M1	Collecting x terms on one side and other terms on the opposite side oe. Do not ISW		
		$\sqrt[3]{\frac{4c - 3a}{7}}$	A1	NB A0 for $\pm \sqrt[3]{\frac{4c - 3a}{7}}$ $3\sqrt{\frac{4c - 3a}{7}}$		
12	$5^{3k+4} = 125$		M1	Allow $\frac{750}{6}$	3	
	$3k + 4 = 3$		M1	Dep first M1 Writing "125" as a power of 5 and equating powers, 0.33(0.33...)		
		$-\frac{1}{3}$	A1	cao		
13	$\left[\frac{BE^2}{9.6^2} = \right] \left(\frac{9}{16} \right) \text{or} \left(\frac{27}{21+27} \right) \text{oe}$		M1	For $\frac{9}{16}$ or $\frac{27}{21+27}$ Alternate $h = 10$, $0.5BE \times x = 27$	3	
	$[BE =] \sqrt{\frac{9}{16}} \times 9.6$		M1	Alternate $(9.6 + BE)(10 - x) = 42$		
		7.2	A1			

Question	Working	Answer	Mark	Notes	Sub-Total	Total
14 (a)(i) (ii) (iii)	$y = 2$ $x + y = 5$ $y = 2x + 1$		B1 B1 B1	correct line correct line (condone incorrect labelling) correct line	1 1 1	
(b)		R correctly placed	B1	Do not award if lines incorrect Ignore labelling of lines	1	4
15	$\frac{1}{5} \times \left(\frac{120}{5} \times 3 \right) (= 14.4(0))$ $0.35 \times \left(\frac{120}{5} \times 2 \right) (= 16.8(0))$ $\frac{'14.4' + '16.8'}{120} = \frac{"31.2"}{120}$		M1 M1 M1	or (Barry): $\frac{3}{5} \times \frac{1}{5} (= \frac{3}{25})$ or (Carlos): $\frac{35}{100} \times \frac{2}{5} (= \frac{14}{100} = \frac{7}{50})$ Dep on M2 or for $\frac{3}{25} + \frac{7}{50}$		4
		$\frac{13}{50}$ or 0.26	A1			