Question			Answer	Marks	Part marks and guidance	
6	(a)		40	1 1 AO1.3a		
	(b)		Correct reasoning leading to 36.9	4 1 AO1.3b 2 AO2.2 1 AO3.1b	**M2** for $\pi \times 1^2$ or **M1** for $\frac{1}{2} \times \pi \times 1^2$ AND **M1** for *their* '40' $- \pi \times 1^2$	
	(c)		7.38 or better	3 1 AO1.3a 2 AO3.1b	**M1** for $2\,\text{mm} = 0.2\,\text{cm}$ **soi** **M1** for $36.9 \times$ *their* '0.2' **oe**	
7	(a)		125	1 1 AO1.2		
	(b)		20 with correct working	4 2 AO2.1a 2 AO2.4a	**B1** for PAB = 45 **B1** for BAD = 90 **M1** for 360 − (*their* '125' + *their* '90' + 125) If **0** scored, instead award **SC1** for answer 20 with no working or insufficient working	"Correct working" requires evidence of at least **M1** <u>Alternative method</u> **B1** for PAB = 45 **B1** for BAC = 45 **M1** for 180 − *their* 45 − 125
8	(a)		$\frac{21-5}{3}$ is not an integer	2 1 AO1.3a 1 AO2.4a	**M1** for $\frac{21-5}{3}$ or for 20 and 23 seen	