

## Topic Test 1 Mark Scheme

Circumference and area - Foundation

Q	Answer	Mark	Comments
1(a)	chord	B1	
1(b)	tangent	B1	
2	$\pi \times 5^2$ or $25\pi$ or $\pi \times 10^2$ or $100\pi$	M1	
	their $100\pi$ – their $25\pi$ or $75\pi$ their $75\pi$ their $100\pi$	M1dep M1dep	oe oe
	3 4	A1	SC2 $\frac{1}{4}$
3	$\pi \times 12^2 \ (\div 4)$ or $144\pi$ or $[452.16, 452.448]$	M1	oe
	[113.04, 113.112] or 36π	A1	
4	4 × π × 6 <sup>2</sup>	M1	oe
	[452.16, 452.448] or 144 π	A1	
5	$16\pi$ (÷ 2) or $8\pi$ or $8\pi$ (÷ 2) or $4\pi$	M1	
	their $8\pi$ + their $4\pi$ (+ 8) or $12\pi$ $12\pi + 8$	M1dep A1	

Q	Answer	Mark	Comments		
6	$\pi \times 5^2$ or $25\pi$ or [78.5, 78.55]	M1			
	$\pi \times 5 \times 24$ or $120\pi$ or [376.8, 377.04]	M1			
	their [78.5, 78.55] + their [376.8, 377.04]	M1dep	145 <i>π</i>		
	[455.3, 455.59] or 145 π	A1			
7	$2 \times \pi \times 24$ or $48\pi$ or [150.72, 150.816]	M1	oe		
	45/360 × their [150.72, 150.816]	M1	oe $\frac{45}{360}$ × 2 × $\pi$ × 24 scores M2		
	[18.84, 18.852] or 6 π	A1			