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 25π or $\pi \times 10^2$ or 100π	M1	
	their 100π – their 25π or 75π	M1dep	oe
	$\dfrac{\text{their } 75\pi}{\text{their } 100\pi}$	M1dep	oe
	$\dfrac{3}{4}$	A1	SC2 $\dfrac{1}{4}$
3	$\pi \times 12^2 \ (\div 4)$ or 144π or [452.16, 452.448]	M1	oe
	[113.04, 113.112] or 36π	A1	
4	$4 \times \pi \times 6^2$	M1	oe
	[452.16, 452.448] or $144\,\pi$	A1	
5	$16\pi \, (\div 2)$ or 8π or $8\pi \, (\div 2)$ or 4π	M1	
	their 8π + their 4π (+ 8) or 12π	M1dep	
	$12\pi + 8$	A1	

Q	Answer	Mark	Comments
6	$\pi \times 5^2$ or 25π or [78.5, 78.55]	M1	
	$\pi \times 5 \times 24$ or 120π or [376.8, 377.04]	M1	
	their [78.5, 78.55] + their [376.8, 377.04]	M1dep	145π
	[455.3, 455.59] or 145π	A1	

Q	Answer	Mark	Comments
7	$2 \times \pi \times 24$ or 48π or [150.72, 150.816]	M1	oe
	$\dfrac{45}{360} \times$ their [150.72, 150.816]	M1	oe $\dfrac{45}{360} \times 2 \times \pi \times 24$ scores M2
	[18.84, 18.852] or 6π	A1	

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