

Question	Scheme	Marks	AOs
2	$BC^2 = 7.5^2 + 8.5^2 - 2(7.5)(8.5)\cos(\pi - 1.2) \Rightarrow BC = 13.21743597\dots$	M1	1.1b
		A1	1.1b
	Arc length $AB = 7.5(1.2) \Rightarrow \text{Arc length } AB = 9$	B1	1.1a
	Perimeter $AOCBA = 7.5 + 8.5 + 13.217423597\dots + 9$	M1	3.1a
	$\{= 38.21743597\dots\} = 38.2 \text{ (cm) (1 dp)}$	A1	1.1b
		(5)	

(5 marks)

Question 2 Notes:

M1:	Application of cosine rule for BC^2 or BC with any angle
A1:	Correct application of cosine rule for BC^2 or BC using $\pi - 1.2$
B1:	Arc length $AB = 7.5(1.2)$ or 9
M1:	A complete strategy for finding the perimeter of the shape $AOCBA$
A1:	38.2 cao