

Level 4 + Homework - The Circle

Q1	(a) 227cm^2 (b) 53cm	<ul style="list-style-type: none">• $A = \pi r^2$• $= \pi(8.5)^2$• 227cm^2 • $C = \pi D$• $C = \pi \times 17$• 53cm
Q2	(a) 41cm (b) 82cm	<ul style="list-style-type: none">• $r^2 = 5281.02 \div \pi$• $r^2 = 1681$• $r = 41\text{cm}$ • 82cm
Q3	74m	<ul style="list-style-type: none">• $C = \frac{3}{4}\pi D$• $D=22$• $T = \frac{3}{4}\pi(22) + 22$• 74m
Q4	(a) 982cm^2 (b) 129cm	<ul style="list-style-type: none">• $A = \frac{1}{2}\pi(25)^2$ • $A = 982\text{cm}^2$ • $C = \frac{1}{2}\pi D + D$ • $C = \frac{1}{2}\pi(50) + 50$ • 129cm
Q5	264mm^2	<ul style="list-style-type: none">• $A_T = A_B - A_S$• 16.5 and 12.5• $\pi(16.5)^2 - \pi(12.5)^2$• 364mm^2

23 marks

REMEMBER WORKING MUST BE SHOWN AND USE YOUR NOTES !!