



Q	Answer	Marks
1	a) 120 cm^3 b) 158 cm^2	4
2	96 cm^2	3
3	a) 360 cm^3 b) 7.5 cm	3
4	132 cm^2	3
5	a) 5000 cm^3 b) 3000000 cm^3 c) 4.5 litres d) 2500 mm^3	4
6	60	4
7	Cross-section area = $12 \times 9 - 7 \times 5 = 108 - 35 = 73 \text{ cm}^2$; volume = $73 \times 24 = 1752 \text{ cm}^3$	5
8	a) 4.5 m^3 b) 18	4
9	£9.00	5
10	175 cm^3	5
EXTENSION QUESTIONS		
11	a) $160\pi \text{ cm}^3$ b) $112\pi \text{ cm}^2$ c) volume $36\pi \text{ cm}^3$, surface area $36\pi \text{ cm}^2$	5
12	13.3 cm	4
EXTENSION QUESTIONS		
13	a) 120 cm^3 b) volume $12\pi \text{ cm}^3$, total surface area $24\pi \text{ cm}^2$	5
14	497 cm^3	4

Full worked solutions, written out by hand, are on the solutions sheet for this topic.