

Topic Test 1 Mark Scheme

Volume - Higher

Q	Answer	Mark	Comments
1	$60 \div 8$ or 7.5	M1	
	$\frac{1}{2} \times 5 \times h = \text{their } 7.5$	M1dep	
	3	A1	
2(a)	4^3	M1	
	64	A1	
2(b)	1.2 and 3.6	B1	
	Only two comparable sides (8 and 2) are needed to get the scale factor	B1	
3	Any side correctly identified, 3, 5 or 7	M1	
	All 3 sides correctly identified	M1dep	
	105	A1	
4	$\frac{2}{3}\pi r^3 = \frac{1}{3}\pi r^2 h$	M1	
	$2r$	A1	
5	8 : 27	B1	
6	$2(ab + bc + ac)$	B1	

Q	Answer	Mark	Comments
7	6^3 or $216 = 8 \times 9 \times h$ or $72h$	M1	
	3	A1	
8	$\frac{1}{3}\pi \times 3^2 \times 4$	M1	
	12π	A1	Accept 37.68 or 37.704
9	$r^3 = \frac{3}{4} \times 36$	M1	oe
	$r = 3$	A1	