

Question	Answer	Mark	Mark scheme	Additional guidance
17	12 : 15 : 5	P1	for process to find ratio of heights of <b>L</b> and <b>M</b> eg $\sqrt[3]{64} : \sqrt[3]{125}$ (= 4 : 5) oe or $\sqrt[3]{\frac{64}{64}} : \sqrt[3]{\frac{125}{64}}$ (= 1:1.25) oe or $\sqrt[3]{\frac{64}{125}} : \sqrt[3]{\frac{125}{125}}$ (= 0.8:1) oe	Condone not written as a ratio as long as clear  $\frac{125}{64} = 1.953... \quad \frac{64}{125} = 0.512$
		P1	for process to find ratio of heights of <b>M</b> and <b>P</b> eg $\sqrt{144} : \sqrt{16}$ (= 12 : 4 = 3 : 1) oe or $\sqrt{\frac{144}{16}} : \sqrt{\frac{16}{16}}$ (= 3:1) oe or $\sqrt{\frac{144}{144}} : \sqrt{\frac{16}{144}}$ (= 1:0. $\dot{3}$ ) oe	Condone not written as a ratio as long as clear  $\frac{144}{16} = 9 \quad \frac{16}{144} = 0.\dot{1}$
		P1	(dep on P2) for process to find ratio of heights of all 3, eg “(4 : 5)” × 3 and “(3 : 1)” × 5 or (1:1.25)×12 and (3:1)×5 or (0.8:1) and $\left(1:0.\dot{3}\right)$	
		A1	for 12 : 15 : 5 oe	Can ISW incorrect simplification of a correct ratio