Question	Working	Answer	Mark	Notes
21	$\left(\sqrt{\frac{10478}{1550}}\right)^3 \left[=\frac{2197}{125}\right]$ oe			M2 The correct scale factor (17.576) Allow (M1) for $\left(\frac{10478}{1550}\right)^3$ or $\sqrt{\frac{10478}{1550}}\left[=\frac{13}{5}\right]$ or $5\sqrt{62}$ **and** $13\sqrt{62}$ identified as the linear SF (Accept 5 and 13)
	$V_A \times "\frac{2197}{125}" - V_A = 62160$ oe			M1 dep on at least one of the previous M being awarded. For equation with their SF. May be implied.
	$[V_A =] \frac{62160}{"\frac{2197}{125}" - 1}$			M1 dep on previous M mark being awarded. For making V_A the subject. Allow equivalent methods
		3750		A1 cao Working not required, so correct answer scores full marks (unless from obvious incorrect working)
			5	
Alternative				
	$\left(\sqrt{\frac{1550}{10478}}\right)^3 \left[=\frac{125}{2197}\right]$ oe			M2 The correct scale factor (0.0568957…) Allow (M1) for $\left(\frac{1550}{10478}\right)^3$ or $\sqrt{\frac{1550}{10478}}$ or $5\sqrt{62}$ **and** $13\sqrt{62}$ identified as the linear SF (Accept 5 and 13)
	$V_B - V_B \times "\frac{125}{1297}" = 62160$ oe			M1 dep on at least one of the previous M being awarded. For equation with their SF. May be implied
	$[V_B =] \frac{62160}{1 - "\frac{125}{2197}"} - 62160$			M1 dep for making V_B the subject and subtracting 62160. Allow equivalent methods
		3750		A1 cao Working not required, so correct answer scores full marks (unless from obvious incorrect working)
				Total 5 marks