1	$1.5 \times 2 \times 8$ (= 24 (cm^3))			M1	for finding the volume of the cuboid
	e.g. $(V =) \frac{5.73 \times 1000}{19.32}$ (= 296.58...) **or** $(M =) 19.32 \times$ "24" (= 463.68)			M2	complete method to find the volume of statue **or** the mass of one block, could work in g or kg (if not M2 then award M1 for correct use of density formula e.g. $19.32 = \frac{5.73 \times 1000}{V}$ **or** $19.32 = \frac{M}{"24"}$)
	e.g. "296.58" ÷ "24" (= 12.3576...) **or** "5730" ÷ "463.68" (= 12.3576...)			M1	could work in g or kg
		13	5	A1	cao
					Total 5 marks

2	$30 = \frac{27}{1.2x}$		3	M2	M1 for $\frac{27}{1.2x}$
		0.75		A1	oe
					Total 3 marks

3	19.3×150		2	M1
		2895		A1
				Total 2 marks

4	eg $(V=) \pi \times \left(\frac{18}{2}\right)^2 \times 3.5$ (= 890.(64...) or $\frac{567}{2}\pi$)		3	M1	correct method to calculate volume
	eg $(7.04 \times 1000) \div$ "890.64"			M1	correct method to calculate density (if volume is incorrect, their value can be used if clearly labelled) accept use of 7.04 or an incorrect conversion from kg to g for mass
		7.9		A1	accept 7.9 – 7.92
					Total 3 marks

5	$1.4 = \frac{72}{(\text{area})}$ oe		4	M1	
	$(\text{area} =) \frac{72}{1.4}$ $(= \frac{360}{7} = 51.4\ldots)$ oe			M1 (51.4 or better)	
	"51.4..." × 18 **or** $r = \sqrt{\frac{"51.4..."}{\pi}}$ (= 4.046...) **and** $\pi \times "4.046"^2 \times 18$			M1 allow use of πr^2 to find the radius and then using $\pi r^2 h$ to find the volume	
		926		A1 Allow 925 – 928	
				Total 4 marks	

6	eg $\pi \times 3^2 \times 7$ (= 63π or 197.9...)		3	M1	for method to find the volume of Solid **A**
	eg $\frac{2000}{[\text{vol A}]}$ **or** $\frac{3375}{450}$ (= 7.5 oe) **or** $\frac{2000+3375}{[\text{vol A}]+450}$			M1	(indep) for method to find the density of Solid **A**, **B** or **C**, allow use of their volume for Solids **A** and **C**
	Correct answer scores full marks (unless from obvious incorrect working)	8.3		A1	accept 8.29 – 8.31
					Total 3 marks

7	$(V=)\frac{1950}{7.8}(=250)$ **or** $7.8=\frac{1950}{w\times5\times4}$ or $7.8=\frac{1950}{w\times20}$		3	M1	for correct method to find volume using mass ÷ density **or** a correct equation with correct expression for volume (may be embedded in another calculation)
	eg $w=\frac{1950}{7.8\times5\times4}$ **or** $20w=\frac{1950}{7.8}$ **or** $20w=$ "250" **or** $4\times5\times w=$ "250" **OR** eg $\frac{1950}{5\times4\times7.8}$ **or** $1950\div(20\times7.8)$ **or** $1950\div156$ **or** "250" ÷ 20			M1	for a fully correct equation in w **or** a fully correct calculation to find the value of w (may be labelled eg x or L)
	Correct answer scores full marks (unless from obvious incorrect working)	12.5		A1	
					Total 3 marks