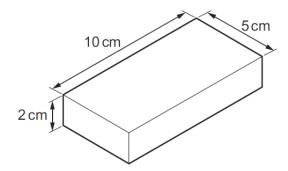
MEASURING DENSITY-SET-2							
1	What apparatus is needed to determine the density of a regularly-shaped block?						
	A a balance and a ruler						
	B a balance and a forcemeter (spring balance)						
	a measuring cylinder and a ruler						
	D a measuring cylinder and a beaker						
2	Which of the following is a unit of density?						
	A cm ³ /g						
	B g/cm ²						
	C g/cm ³						
	D kg/m ²						
3	The masses of a measuring cylinder before and after pouring some liquid into it are shown in the diagram.						
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$						

4	A person measures the length, width, height and mass of a rectangular metal block.					
	Which of these measurements are needed in order to calculate the density of the metal?					
	A mass only					
	B height and mass only					
	C length, width and height only					
	D length, width, height and mass					
5	Each of the solids shown in the diagram has the same mass.					
	Which solid has the greatest density?					
	A B C D					
	1 cm 2 cm 2 cm 2 cm					
6	A stone has a volume of 0.50 cm ³ and a mass of 2.0 g.					
	What is the density of the stone?					
	A 0.25g/cm ³					
	B 1.5g/cm ³					
	C 2.5g/cm ³					
	D 4.0 g / cm ³					

7	A measuring cylinder has a mass of 120 g when empty.						
	When it contains 50 cm ³ of a liquid, the total mass of the measuring cylinder and the liquid is 160 g.						
	What is the density of the liquid?						
	$A = \frac{40}{50} \text{ g/cm}^3$						
	B $\frac{50}{40}$ g/cm ³						
	$c = \frac{120}{50} g/cm^3$						
	$D = \frac{160}{50} \text{g/cm}^3$						
8	A liquid has a volume of 100 cm ³ and a mass of 85 g.						
	The density of water is 1.0 g/cm ³ .						
	How does the density of the liquid compare with the density of water?						
	A Its density is higher than that of water.						
	B Its density is lower than that of water.						
	C Its density is the same as that of water.						
	D It is impossible to say with only this data.						
9	The table gives the volumes and masses of four objects.						
	Which object has the greatest density?						
		mass/g	volume/cm ³				
	Α	5.4	2.0				
	В	13	3.0				
	С	15	6.0				
	D	18	5.0				

10 A metal block has the dimensions shown. Its mass is 1000 g.



What is the density of the metal?

$$\textbf{A} \quad \left(\frac{5\!\times\!10}{1000\!\times\!2}\right)\!g/cm^3$$

$$\textbf{B} \quad \left(\frac{2 \times 5 \times 10}{1000}\right) \text{g/cm}^3$$

$$\textbf{C} \quad \left(\frac{1000 \times 2}{5 \times 10}\right) \text{g/cm}^3$$

$$\textbf{D} \quad \left(\frac{1000}{2 \times 5 \times 10}\right) g/cm^3$$

