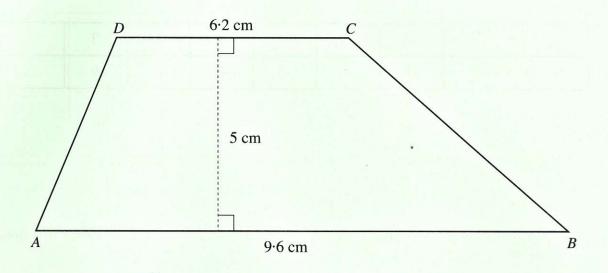
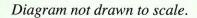
13. A metal bar has a uniform cross-section in the shape of a trapezium ABCD in which AB is parallel to DC. The length of AB is 9.6 cm and the length of DC is 6.2 cm. The perpendicular distance between the two parallel sides is 5 cm.

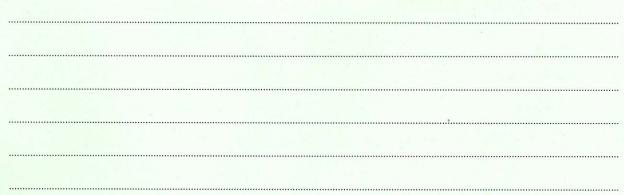




(a) Calculate the area of the cross-section of the metal bar, stating clearly the units of your answer.

······]
7	
	[3]

(b) The metal bar is 13.6 cm long and has a mass of 2.4 kg. Calculate the density of the metal from which the rod is made, give your answer in g/cm^3 .



16. (a) A rod has a uniform circular cross-section of radius 2.6 cm and a length of 95 cm. Calculate the volume of the rod.

(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .						Nasyina 33	
		l ka tentra naimp	oz stal pilo trad	as, ang ni la	a hini lo bo	atopa oli ès	
		- E					
(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .							
(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .							
(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .							
(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .				<u> </u>			[3
(b) The rod has a mass of 8.6 kg. Calculate the density of the material from which the made, giving your answer in g/cm ³ .							
	(h) The rod has	a mass of 8.6 kg	Calculate the den	ity of the r	natarial from	a which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (g your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (g your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (g your answer in g/c	Calculate the dens	sity of the r	naterial from	n which the	
	(b) The rod has made, giving	a mass of 8.6 kg. (g your answer in g/c	Calculate the dens m ³ .	sity of the r	naterial from	n which the	

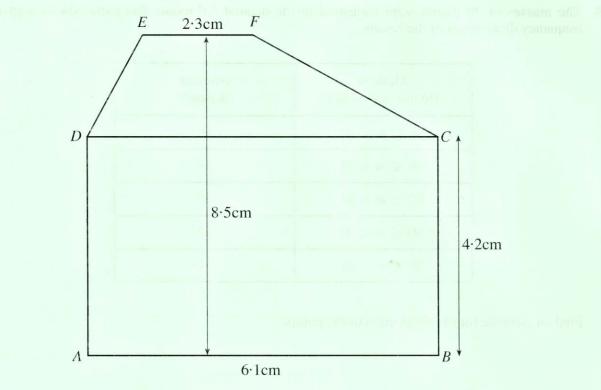


Diagram not drawn to scale.

ABCFED represents the uniform cross-section of a solid block of material. ABCD is a rectangle in which AB = 6.1 cm and BC = 4.2 cm. EF is of length 2.3 cm and is parallel to AB. The distance between EF and AB is 8.5 cm.

(a) Calculate the area of cross-section of the block.

16.

[3]

(b) The block has this uniform cross-section along its length of 12.6 cm and has a mass of 2 kg. Calculate the density, in g/cm³, of the material from which the block is made.



