23.	A car travels 73 miles in 2·4 hours. The distance is measured correct to the nearest mile and the time is measured correct to the nearest 0·1 hours. Find the greatest average speed of the car over this distance. Give your answer correct to one decimal place.
	4.6cm/2 (A)
	[3]
	The state of the s



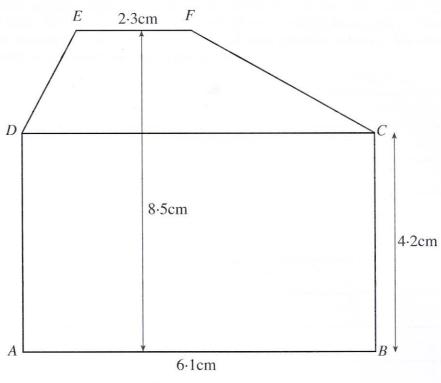


Diagram not drawn to scale.

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.
	=

(b)	The block h Calculate th	as this unifor e density, in g	m cross-section c/cm^3 , of the m	n along its loaterial from	ength of 12- which the b	6 cm and has block is made	a mass of 2 kg.

	8					Àc.	
			111				
			alizar na wso	ta tagatsingi	.80		
***************************************							[4]

7.

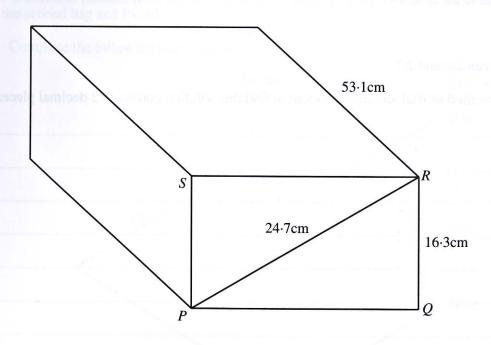


Diagram not drawn to scale.

The $PR =$	e diagram shows a cuboid of length 53.1 cm . The cross-section = 24.7 cm and $QR = 16.3 \text{ cm}$.	n, PQRS, is such that
(a)	Calculate the length of PQ .	
		[3]
(b)	The density of the material from which the cuboid is made is $4.3 \mathrm{g}$ of the cuboid in kilograms.	/cm³. Calculate the mass
		,

	Calculate the volume of the	e rod. $0 = 2\nabla - x\nabla - \frac{1}{2}x$	
			lies between 4 and 5.
	s derrect to 1 decimal place.	aprovement to find this solutor	
			F-1
		3034M	
		in a second state of the second	
(b)	made, giving your answer	in g/cm ³ .	he material from which the rod
	The average districts of the		