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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

(b) The diagram below, not drawn to scale, shows a block of metal in the shape of a prism. The cross section of the block is a trapezium, PQRS, with parallel sides QR and PS, and PQ, the perpendicular distance between the sides.

$PQ = 15 \text{ cm}$ ,  $QR = 4 \text{ cm}$ ,  $PS = 12 \text{ cm}$  and  $ST = 3 \text{ cm}$

Area =  $\frac{1}{2} \times (15 + 4) \times 12$   
 $= 114 + 6$

(i) Calculate the area of the trapezium PQRS. (2 marks)

(ii) Given that  $ST = 3 \text{ cm}$ , calculate the volume of the block of metal. (1 mark)

(iii) The block of metal has a mass of 1.5 kg. Calculate, in grams, the mass of ONE cubic centimetre of metal. (2 marks)

Total 12 marks

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