

Extended Mathematics Topic :  
 Mensuration  
 Year : May 2013 - May 2022  
 Paper -4  
 Questions

Question 1



$EFGHIJ$  is a solid metal prism of length 40 cm.  
 The cross section  $EFG$  is a right-angled triangle.  
 $EF = 7$  cm and  $EG = 22$  cm.

- (a) Calculate the volume of the prism.

Answer(a) ..... cm<sup>3</sup> [2]

- (b) Calculate the length  $FJ$ .

Answer(b)  $FJ =$  ..... cm [4]

- (c) Calculate the angle between  $FJ$  and the base  $EFGH$  of the prism.

Answer(c) ..... [3]

- (d) The prism is melted and made into spheres.  
 Each sphere has a radius 1.5 cm.

Work out the greatest number of spheres that can be made.

[The volume,  $V$ , of a sphere with radius  $r$  is  $V = \frac{4}{3}\pi r^3$ .]

Answer(d) ..... [3]

Continue on the next page...

# Xtreme Igcse Math Paper 43 Winter 2013

**S. A. I. Gopal SUNKARA**



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