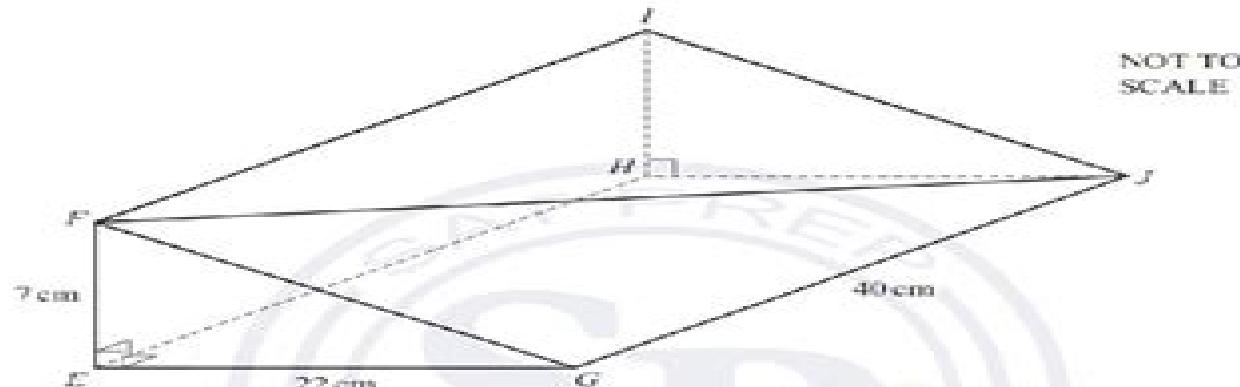


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 Questions

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^3 [2]

(b) Calculate the length FJ .

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

(c) Calculate the angle between FJ and the base $EFGHI$ 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]

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