## Worksheet

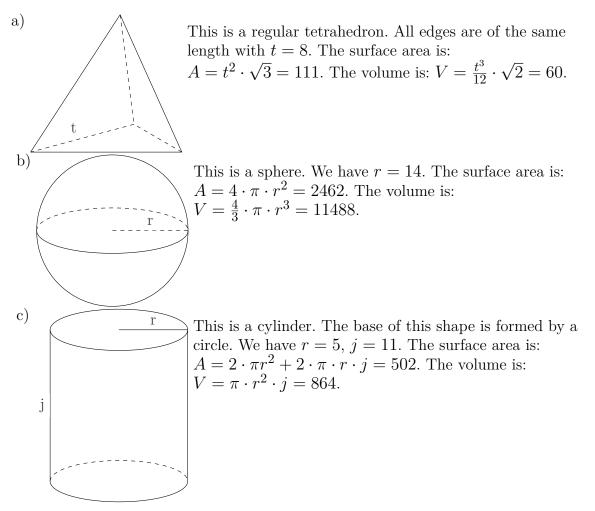
Quick: 2200

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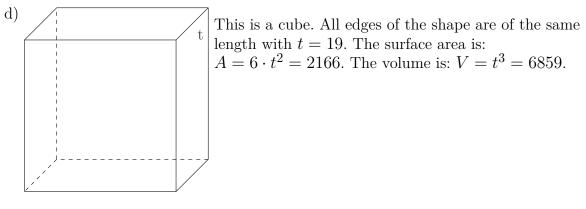
Problem quickname: 2200

 $\underline{1}$ 

State the formulas for the required metrics of the given shape and calculate their approximate values.

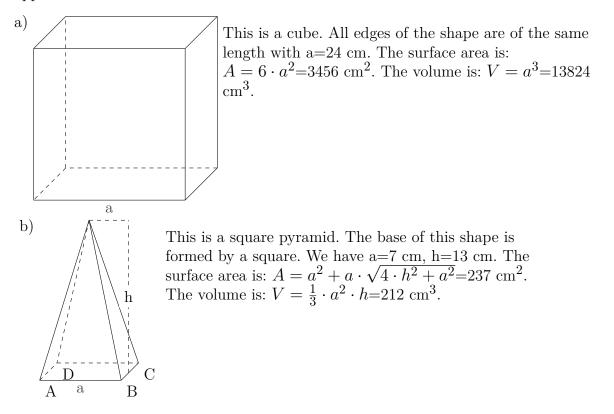


smp-2200-1/EISS



2)

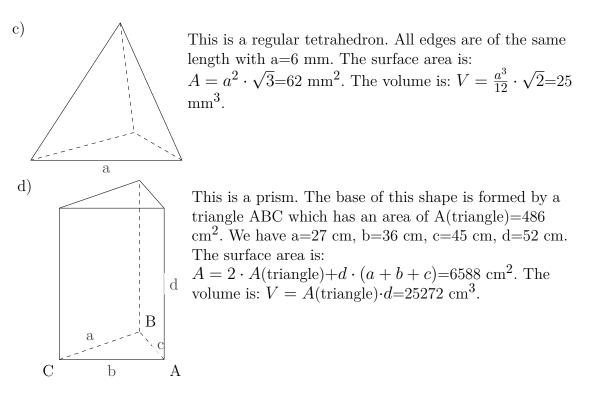
State the formulas for the required metrics of the given shape and calculate their approximate values.



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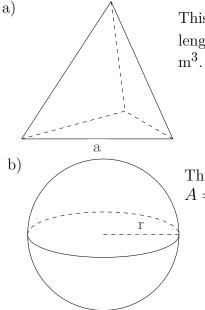
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3)

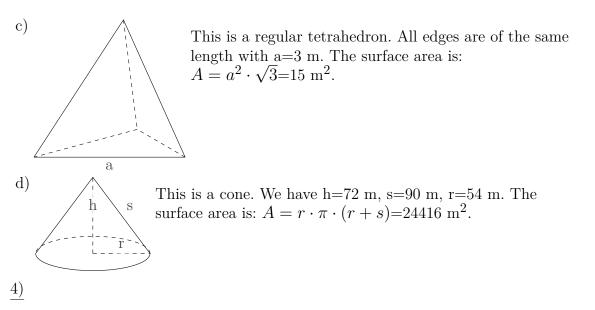
State the formulas for the required metrics of the given shape.



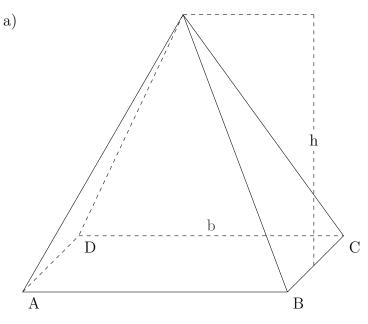
This is a regular tetrahedron. All edges are of the same length with a=20 m. The volume is:  $V = \frac{a^3}{12} \cdot \sqrt{2} = 942$  m<sup>3</sup>.

This is a sphere. We have r=3 m. The surface area is:  $A = 4 \cdot \pi \cdot r^2 = 113 \text{ m}^2$ .

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Calculate the approximate values of the shapes metrics a requested.

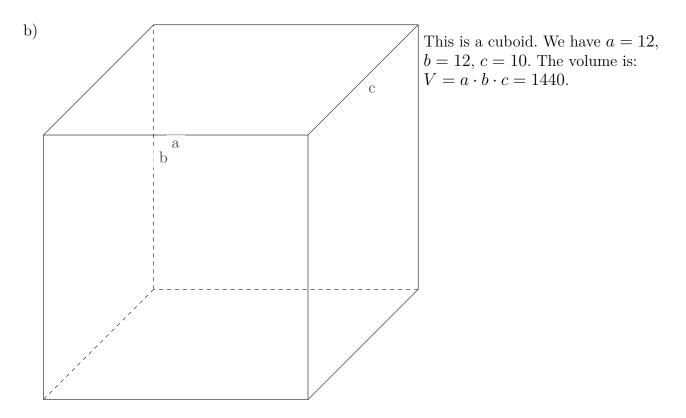


This is a square pyramid. The base of this shape is formed by a square. We have b = 17, h = 16. The surface area is:  $A = b^2 + b \cdot \sqrt{4 \cdot h^2 + b^2} = 905$ .

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## Good Luck!

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