## Worksheet

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Problem quickname: 2200

## $\underline{1}$

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





This is a cuboid. We have a=11 mm, b=12 mm, c=13 mm. What is the volume of this shape?

2)

Calculate the approximate values of the shapes metrics a requested.



This is a regular tetrahedron. All edges are of the same length with a=3 mm. What is the surface area of this shape? Round to the nearest whole number.

This is a sphere. We have r=5 mm. What is the volume of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

This is a square pyramid. The base of this shape is formed by a square. We have a=5 mm, h=6 mm. What is the volume of this shape?

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This is a cylinder. The base of this shape is formed by a circle. We have r=5 mm, h=1 cm 1 mm. What is the volume of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

3)

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



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

This is a cone. We have h=28 mm, s=35 mm, r=21 mm. What is the volume and surface area of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.





This is a square pyramid. The base of this shape is formed by a square. We have a=9 cm, h=13 cm. What is the volume and surface area of this shape?



h

a)



This is a cuboid. We have a=4 cm, b=3 cm, c=4 cm. What is the volume and surface area of this shape?

Good Luck!