Worksheet

12/06/2020

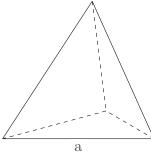
Free on dw-math.com

Problem quickname: 2200

1)

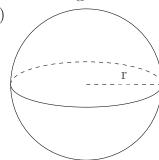
State the formulas for the required metrics of the given shape.

a)



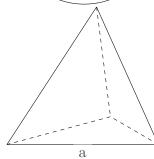
This is a regular tetrahedron. All edges are of the same length with a=14 cm. What is the volume of this shape?

b)



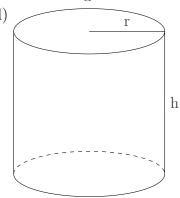
This is a sphere. We have r=4 cm. What is the volume of this shape?

c)



This is a regular tetrahedron. All edges are of the same length with a=15 mm. What is the surface area of this shape?

d)

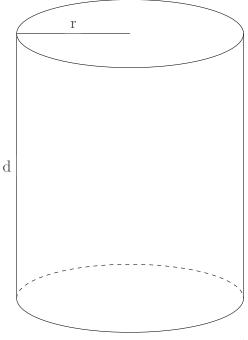


This is a cylinder. The base of this shape is formed by a circle. We have r=9 cm, h=17 cm. What is the volume of this shape?

<u>2)</u>

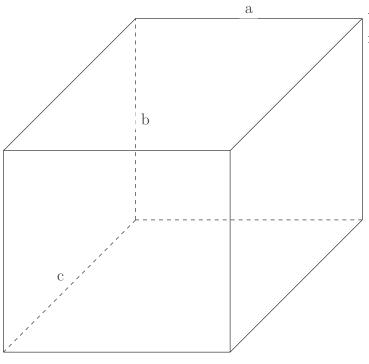
Calculate the approximate values of the shapes metrics a requested.

a)



The base of this shape is formed by a circle. We have r=6, d=14. What is the surface area of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

b)

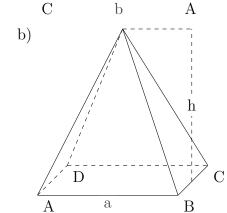


We have a = 18, b = 16, c = 21. What is the volume of this shape?

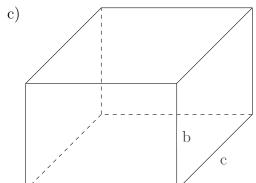
State the formulas for the required metrics of the given shape.

a)

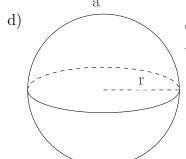
This is a prism. The base of this shape is formed by a triangle ABC which has an area of A(triangle)=24 mm². We have a=6 mm, b=8 mm, c=10 mm, d=6 mm. What is the volume of this shape?



This is a square pyramid. The base of this shape is formed by a square. We have a=13 mm, h=14 mm. What is the volume of this shape?



This is a cuboid. We have a=17 m, b=12 m, c=17 m. What is the volume of this shape?

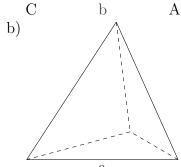


This is a sphere. We have r=17 mm. What is the volume of this shape?

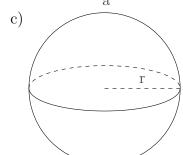
Calculate the approximate values of the shapes metrics a requested.

a)
B
a
c

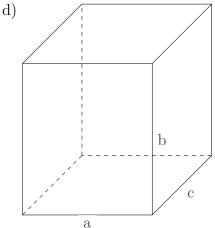
This is a prism. The base of this shape is formed by a triangle ABC which has an area of A(triangle)=6 cm². We have a=3 cm, b=4 cm, c=5 cm, d=4 cm 6 mm. What is the surface area of this shape?



This is a regular tetrahedron. All edges are of the same length with a=1 cm 4 mm. What is the volume of this shape? Round to the nearest whole number.



This is a sphere. We have r=2 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 cuboid. We have a=1 cm 2 mm, b=1 cm 4 mm, c=1 cm 1 mm. What is the volume of this shape?

Good Luck!