

Worksheet

04/16/2020

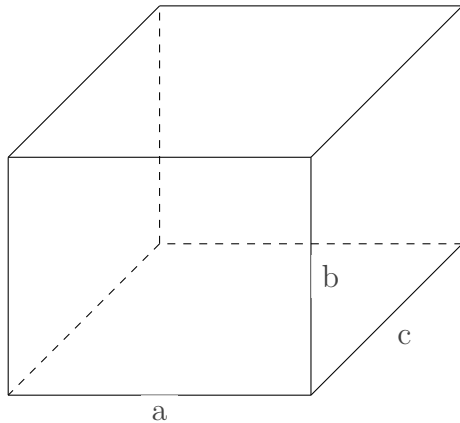
Free on dw-math.com

Problem quickname: 2200

1)

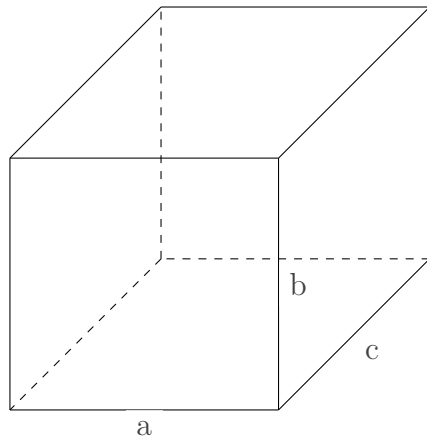
State the formulas for the required metrics of the given shape.

a)



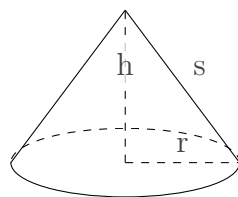
This is a cuboid. We have $a=14$ cm, $b=11$ cm, $c=14$ cm. What is the surface area of this shape?

b)



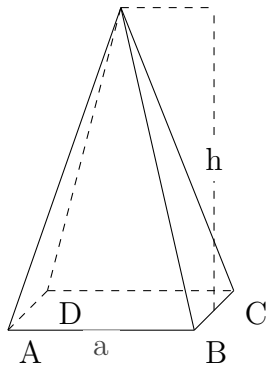
This is a cuboid. We have $a=16$ mm, $b=15$ mm, $c=18$ mm. What is the volume of this shape?

c)



This is a cone. We have $h=48$ mm, $s=60$ mm, $r=36$ mm. What is the volume of this shape?

d)

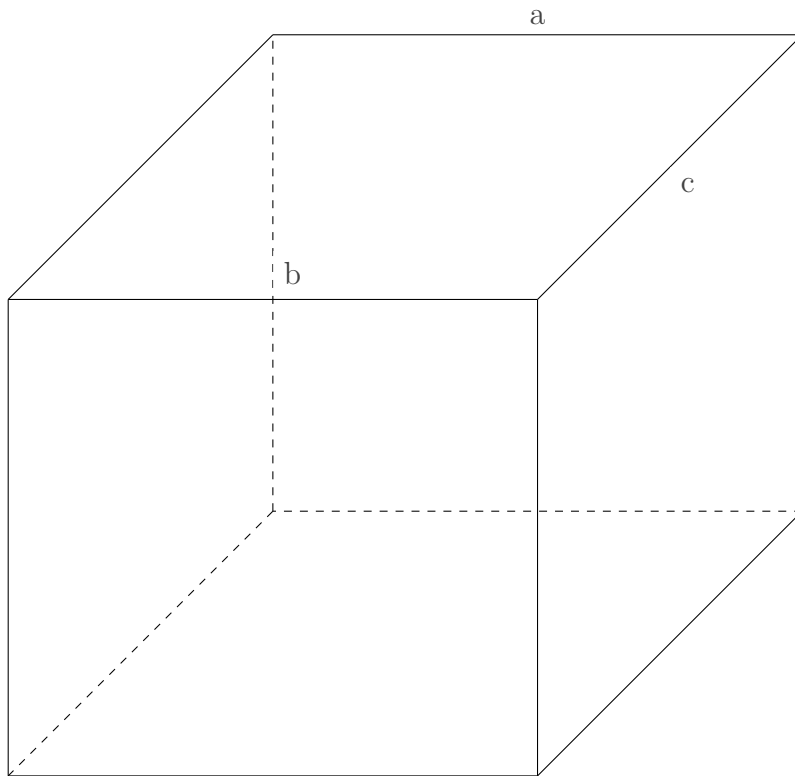


This is a square pyramid. The base of this shape is formed by a square. We have $a=8$ mm, $h=13$ mm. What is the volume of this shape?

2)

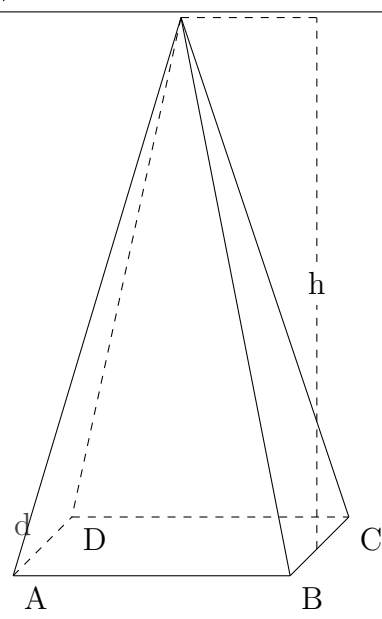
Calculate the approximate values of the shapes metrics as requested.

a)



We have $a = 10$, $b = 9$, $c = 10$. What is the volume of this shape?

b)

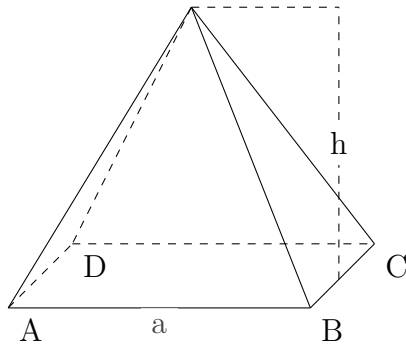


The base of this shape is formed by a square. We have $d = 11$, $h = 21$. What is the volume of this shape?

3)

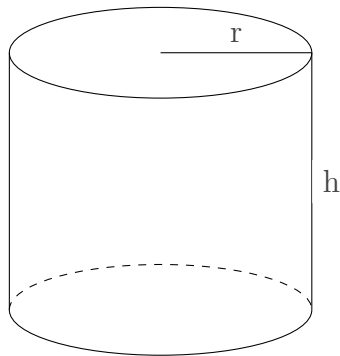
State the formulas for the required metrics of the given shape.

a)



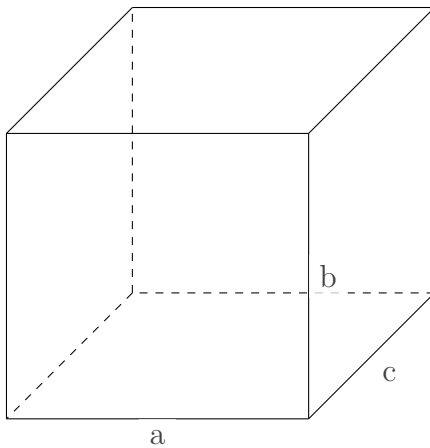
This is a square pyramid. The base of this shape is formed by a square. We have $a=9$ mm, $h=8$ mm. What is the volume of this shape?

b)



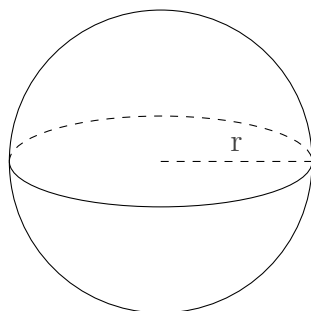
This is a cylinder. The base of this shape is formed by a circle. We have $r=10$ m, $h=17$ m. What is the volume of this shape?

c)



This is a cuboid. We have $a=18$ m, $b=17$ m, $c=15$ m. What is the volume of this shape?

d)

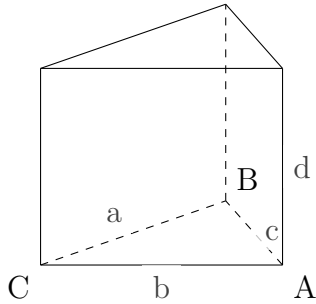


This is a sphere. We have $r=11$ mm. What is the volume of this shape?

4)

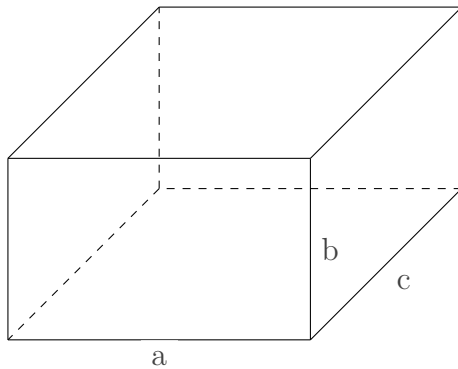
Calculate the approximate values of the shapes metrics as requested.

a)



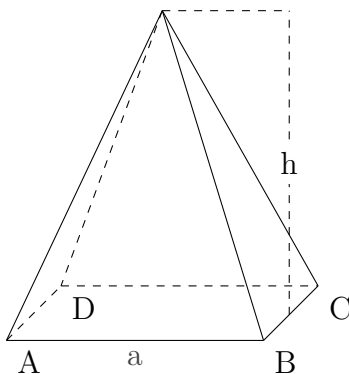
This is a prism. The base of this shape is formed by a triangle ABC which has an area of $A(\text{triangle})=96 \text{ mm}^2$. We have $a=1 \text{ cm } 2 \text{ mm}$, $b=1 \text{ cm } 6 \text{ mm}$, $c=2 \text{ cm}$, $d=1 \text{ cm } 3 \text{ mm}$. What is the surface area of this shape?

b)



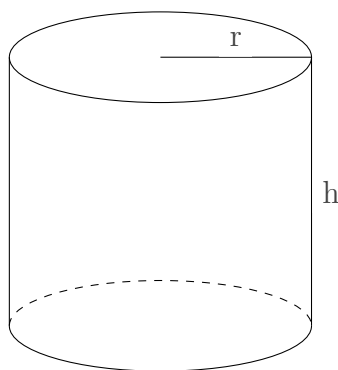
This is a cuboid. We have $a=5 \text{ mm}$, $b=3 \text{ mm}$, $c=5 \text{ mm}$. What is the volume of this shape?

c)



This is a square pyramid. The base of this shape is formed by a square. We have $a=1 \text{ cm } 7 \text{ mm}$, $h=2 \text{ cm}$. 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 $r=9 \text{ mm}$, $h=1 \text{ cm } 6 \text{ mm}$. What is the surface area of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

Good Luck!