

# Worksheet

04/16/2020

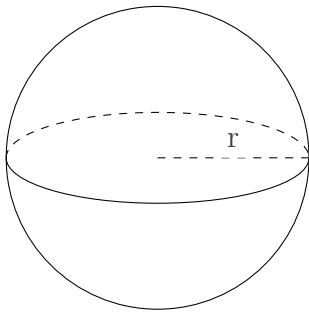
Free on dw-math.com

Problem quickname: 2200

1)

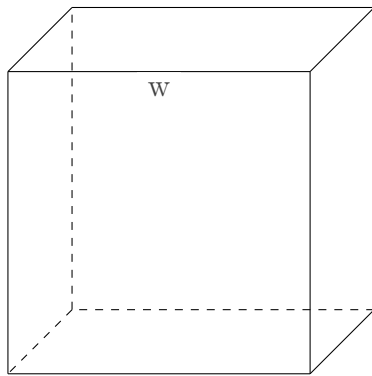
State the formulas for the required metrics of the given shape and calculate their approximate values.

a)



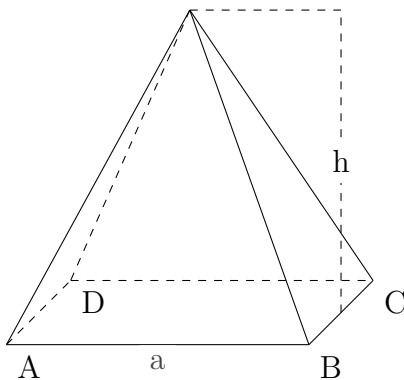
We have  $r = 7$ . What is the volume and surface area of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

b)



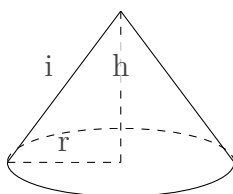
All edges of the shape are of the same length with  $w = 12$ . What is the volume and surface area of this shape?

c)



The base of this shape is formed by a square. We have  $a = 10$ ,  $h = 10$ . What is the volume and surface area of this shape?

d)

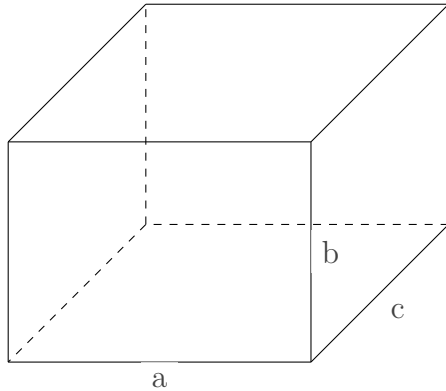


We have  $h = 8$ ,  $i = 10$ ,  $r = 6$ . What is the volume and surface area of this shape? Round to the nearest whole number. Assume the value of 3.14 for pi.

2)

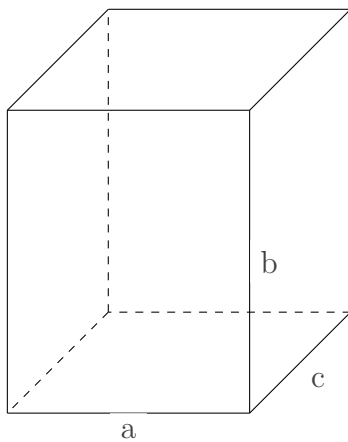
State the formulas for the required metrics of the given shape.

a)



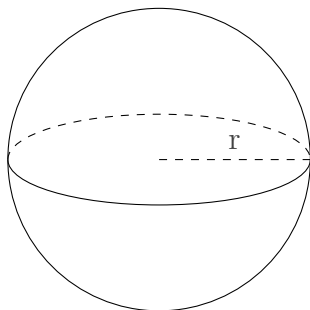
This is a cuboid. We have  $a=11$  cm,  $b=8$  cm,  $c=10$  cm. What is the surface area of this shape?

b)



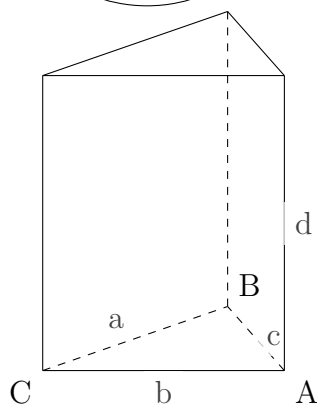
This is a cuboid. We have  $a=12$  cm,  $b=15$  cm,  $c=10$  cm. What is the volume of this shape?

c)



This is a sphere. We have  $r=10$  cm. What is the surface area of this shape?

d)

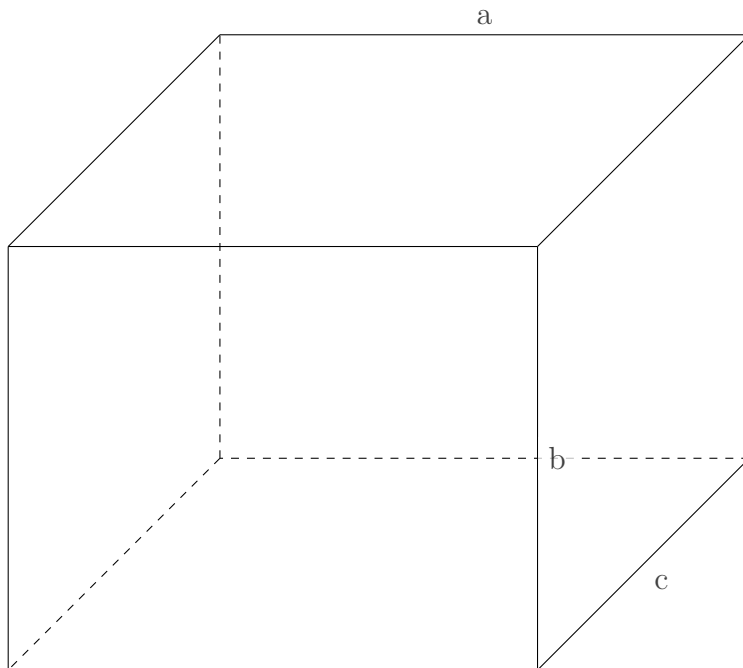


This is a prism. The base of this shape is formed by a triangle ABC which has an area of  $A(\text{triangle})=1734$   $\text{cm}^2$ . We have  $a=51$  cm,  $b=68$  cm,  $c=85$  cm,  $d=83$  cm. What is the surface area of this shape?

3)

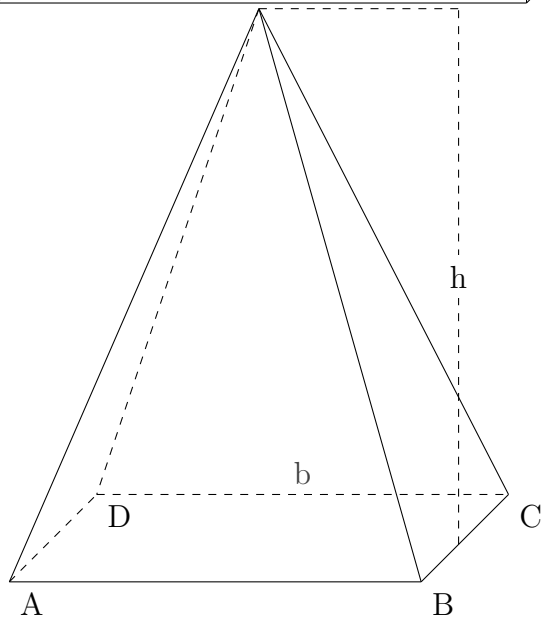
Calculate the approximate values of the shapes metrics as requested.

a)



We have  $a = 10$ ,  $b = 8$ ,  $c = 8$ . What is the surface area of this shape?

b)



The base of this shape is formed by a square. We have  $b = 7$ ,  $h = 9$ . What is the surface area of this shape?

Good Luck!