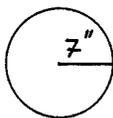


Volume – Homework #1

1) Calculate the area of each.

a)



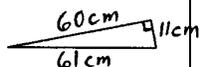
b)



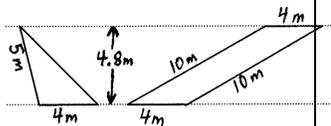
c)



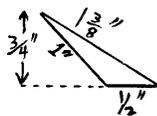
d)



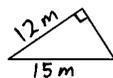
e)



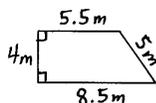
f)



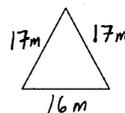
g)



h)



i)

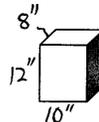


j)

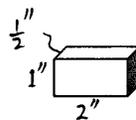


2) Calculate the volume.

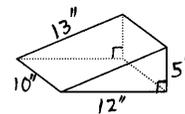
a)



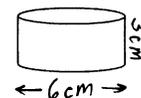
b)



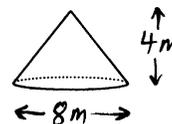
c)



d)



e)



Volume – Homework #2

1) a) The formula $V = A_{\text{Base}} \cdot H$ is used for what?

b) The formula $V = \frac{1}{3}A_{\text{Base}} \cdot H$ is used for what?

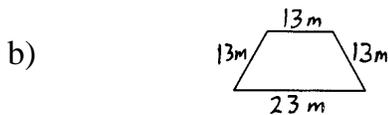
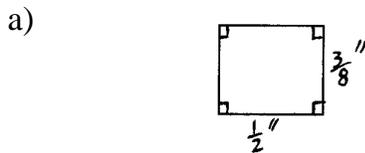
2) a) How many square feet are in a square yard?

b) How many cubic feet are in a cubic yard?

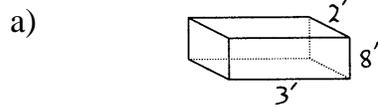
c) How many square centimeters are in a square meter?

d) How many cubic centimeters are in a cubic meter?

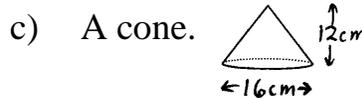
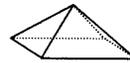
3) Calculate the area.



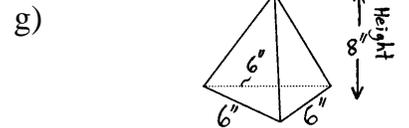
4) Find the volume of each:



b) A pyramid has a total height of 150 feet, and its square base measures 200 feet on each side.



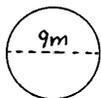
f) A sphere that has a diameter of 18cm?



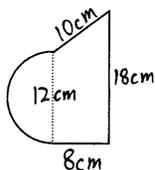
Volume – Homework #3

1) Calculate the area.

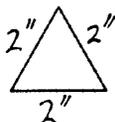
a)



b)

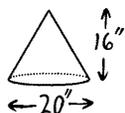


c)

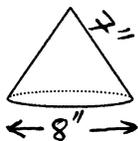


2) Calculate the volume.

a)

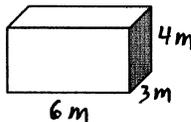


b)

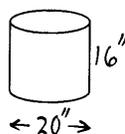


3) Calculate the volume and surface area.

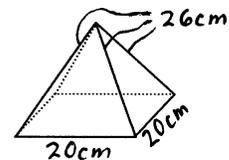
a)



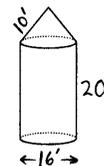
b)



d)



e) A "pointed" cylinder.

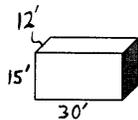


c) A ball that has a 12-inch diameter.

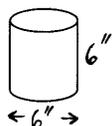
Volume – Homework #4

1) Calculate the volume and surface area of each solid.

a) A box.



b) A cylinder.



c) The Earth, which has a diameter of about 8000 miles.

2) Given a cube with edges 6" long...

a) Calculate the volume.
Give your answer both in ft^3 and in^3 .

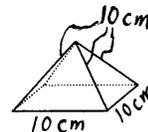
b) Calculate the surface area.
Give your answer both in ft^2 and in^2 .

3) Calculate the volume of each solid.

a) A cone.



b) A pyramid.



c)



d) *Challenge!* A tetrahedron with all edges 10 cm long.

