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.

a) 

b) 

4) Find the volume of each:

a) 

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

c) A cone.

d) 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)
   c) A ball that has a 12-inch diameter.
   d) A "pointed" cylinder.
   e) A "pointed" cylinder.
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.