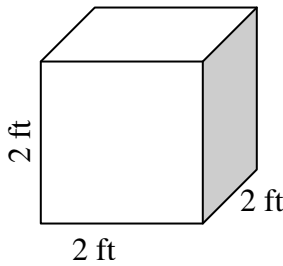Name _____ Period_____ Date_____

Volume and Surface Area of Rectangular Prisms and Cylinders

Remember, the volume of a shape is how many cubic units you can fit inside it. What are the areas of the cubes drawn below? Make sure you write the units.
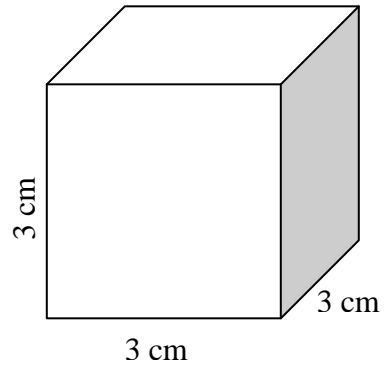
Volume of a Rectangular Prism = _____

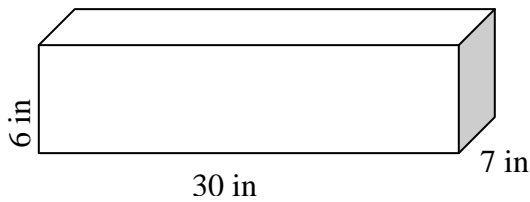Surface Area of a Rectangular Prism = _____

1) Volume = _____
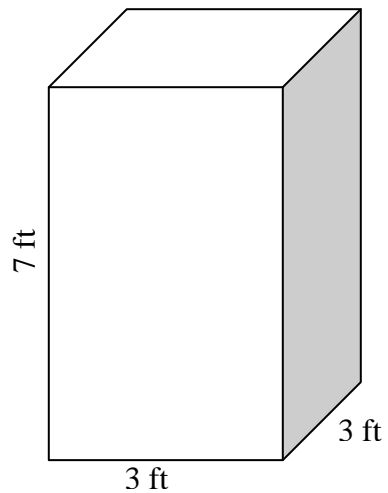   Surface Area = _____

2) Volume = _____
   Surface Area = _____

3) Volume = _____
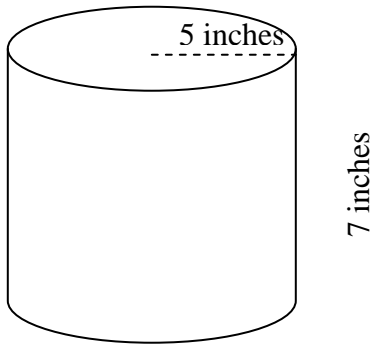   Surface Area = _____

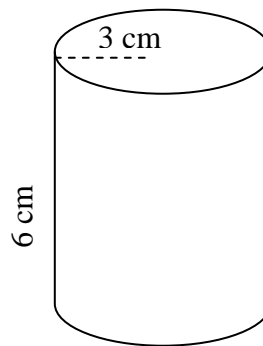4) Volume = _____
   Surface Area = _____

Volume of a Cylinder = _____
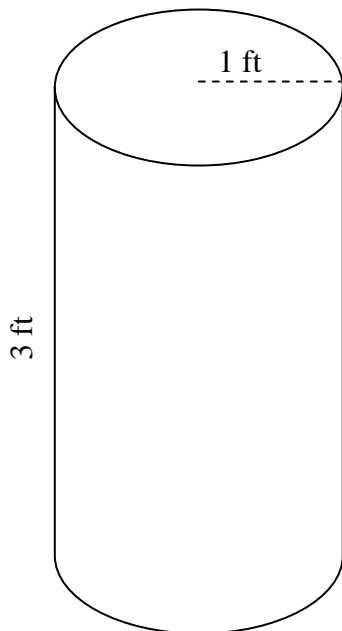
Surface Area of a Cylinder = _____
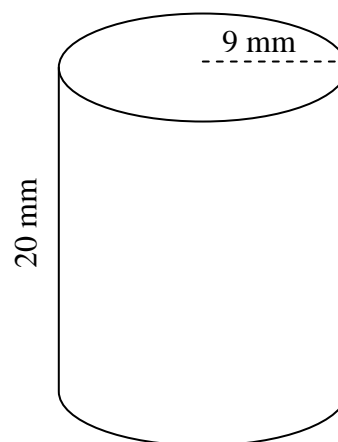
9) Volume = _____
   Surface Area = _____

5 inches

7 inches

10) Volume = _____
    Surface Area = _____

3 cm

6 cm

11) Volume = _____
    Surface Area = _____

1 ft

3 ft

12) Volume = _____
    Surface Area = _____

9 mm

20 mm

Name __ANSWER KEY_____ Period_____ Date_____

Volume and Surface Area of Rectangular Prisms and Cylinders

Remember, the volume of a shape is how many cubic units you can fit inside it. What are the areas of the cubes drawn below? Make sure you write the units.
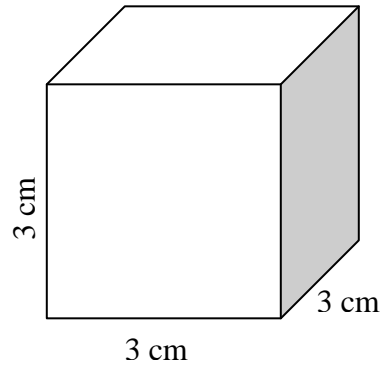

Volume of a Rectangular Prism = __**length x width x height**_____

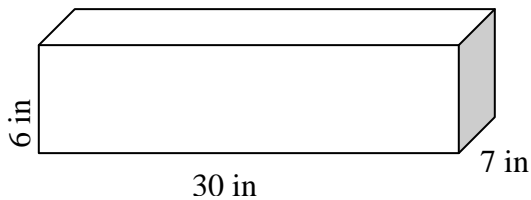Surface Area of a Rectangular Prism = **2(length x width + length x height + width x height)**

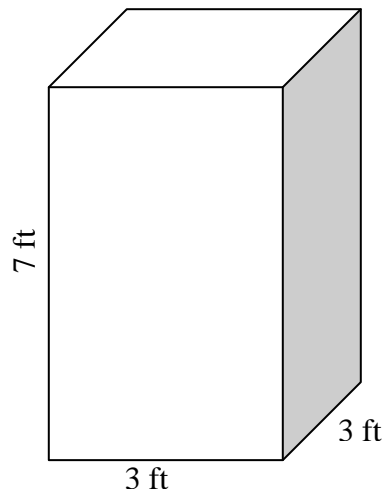
1) Volume = __**8 cubic ft.**_____
   Surface Area = ___**24 sq. ft**_
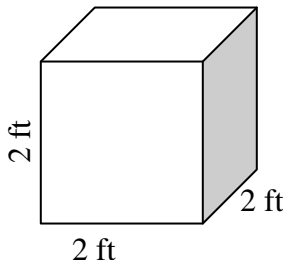
2) Volume = _**27 cubic cm.**__
   Surface Area = _**54 sq. cm.**

3) Volume = _**1, 260 cubic in.**
   Surface Area = __**864 sq. in.**

4) Volume = _**63 cubic ft.**___
   Surface Area = __**102 sq. ft.**

> Volume of a Cylinder = __**3.14 x radius x radisus x height**_____
>
> Surface Area of a Cylinder = **2 x 3.14 x radius x height + 2 x 3.14 x radius x radius**

9) Volume = __**549.5 cubic in.**__
   Surface Area = __**376.8 sq. in.**__
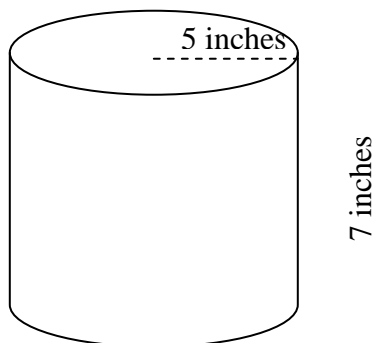
10) Volume = __**169.56 cubic cm.**__
    Surface Area = __**169.56 sq. cm.**__

5 inches

7 inches

3 cm

6 cm
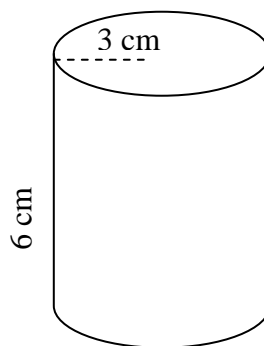
11) Volume = __**9.42 cubic ft.**__
    Surface Area = __**25.12 sq. ft.**__
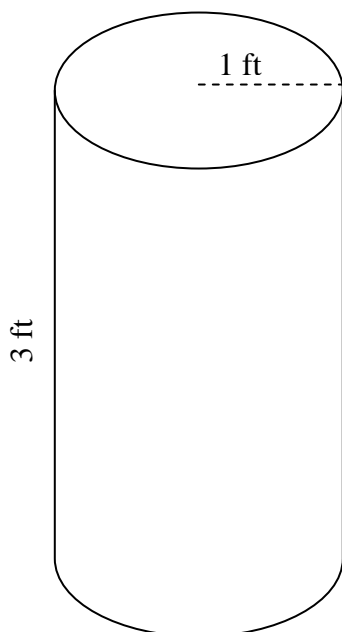
12) Volume = __**5, 086.8 cubic mm.**__
    Surface Area = __**1, 639.08 sq. mm.**__

1 ft

3 ft

9 mm

20 mm