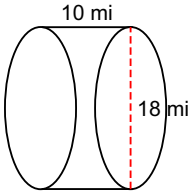
4.REV.2 ~ End of Chapter Review

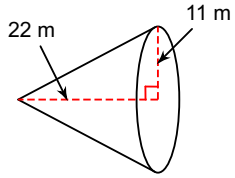
Past due on _____ Period ____

Find the volume of each figure. Label accordingly. Round your answers to the nearest hundredth, if necessary.

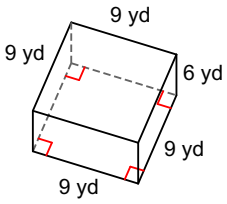
1)



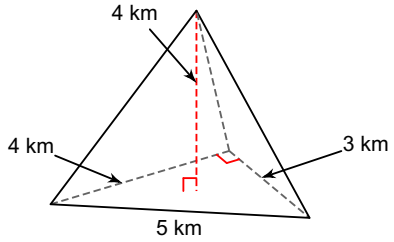
2)



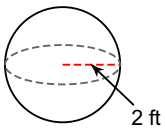
3)



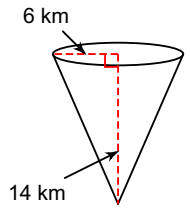
4)



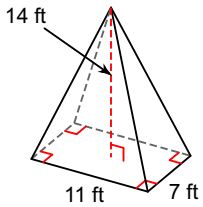
5)



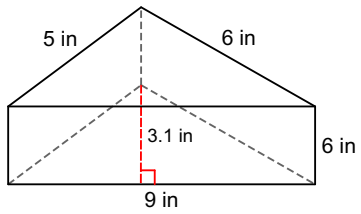
6)



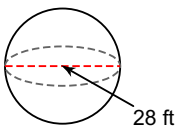
7)



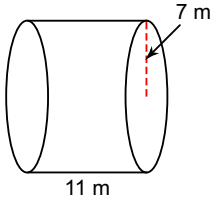
8)



9)



10)



Determine the solid formed by the action described: cone, cylinder, prism, pyramid, or sphere.

11) translating an isosceles triangle

12) translating a circle

13) translating a square

14) stacking similar circles

15) rotating a circle

16) stacking congruent triangles

17) stacking similar triangles

18) rotating a triangle

19) rotating a rectangle

20) translating a right triangle

21) translating a rectangle

22) stacking similar rectangles

23) stacking congruent circles

24) stacking congruent rectangles

25) stacking congruent squares

26) stacking similar squares

27) The Leaning Tower of Pisa in Italy is about 180 feet tall from the top of the tower vertically to the ground. It has a diameter of approximately 51 feet. Determine the approximate volume of the tower to the nearest hundredth.

28) The world's largest ball of twine is in Darwin, Minnesota. It weighs 17,400 pounds and was created by Francis A. Johnson. If the volume of the world's largest ball of twine is 7234.56 cubic feet, determine the radius. Use 3.14 for π.

29) A packing company is in the planning stages of creating a box that includes a diagonal support. The box has a width of 5 feet, a length of 6 feet, and a height of 8 feet. How long will the diagonal support need to be?

30) Julian is constructing a box for actors to stand on during a school play. To make the box stronger, he decides to include diagonals on all sides of the box and a three-dimensional diagonal through the center of the box. The diagonals across the front and back of the box are each 2 feet, the diagonals across the sides of the box are each 3 feet, and the diagonals across that top and bottom of the box are each 7 feet. How long is the diagonal through the center of the box?