

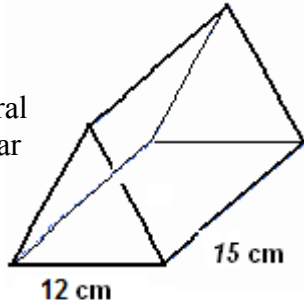
CP Geometry: Unit 7 Review Jeopardy

Nets (Draw a net for a ...)

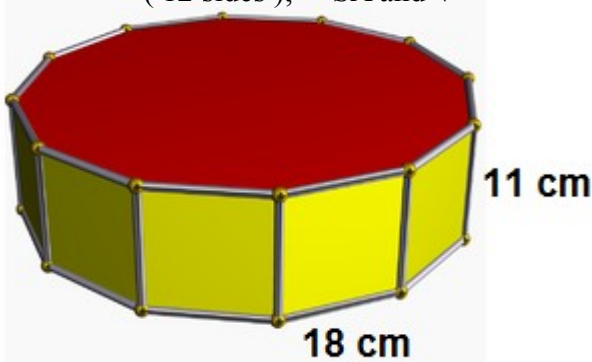
- 4.) Cone
- 5.) Cylinder
- 6.) Rectangular Pyramid

Prisms

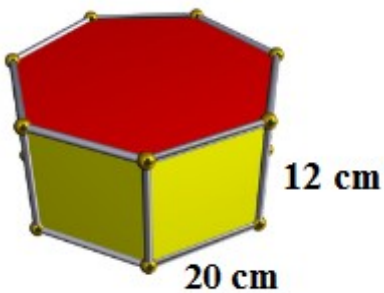
- 4.) Equilateral Triangular Prism



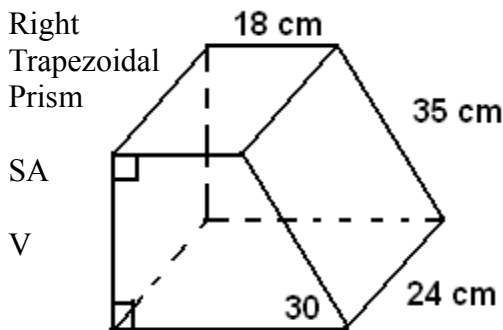
- 5.) Regular Dodecagon Prism (12 sides); SA and V



- 6.) Regular Heptagon Prism (7 sides); SA and V

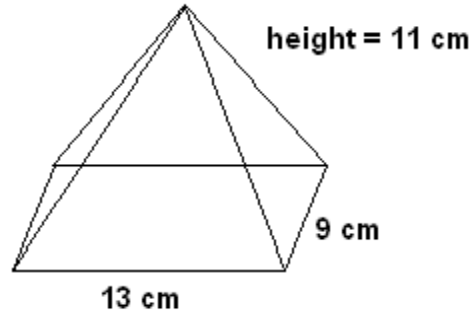


- 7.) Right Trapezoidal Prism



Pyramids

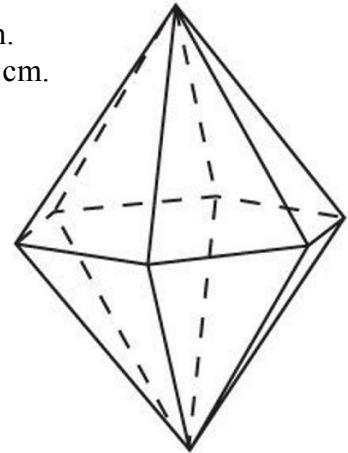
- 4.) Right Rectangular Pyramid; SA and V



- 5.) "Diamond" formed by two right regular hexagon pyramids.

Side Length = 15 cm.
Overall Height = 40 cm.

SA and V

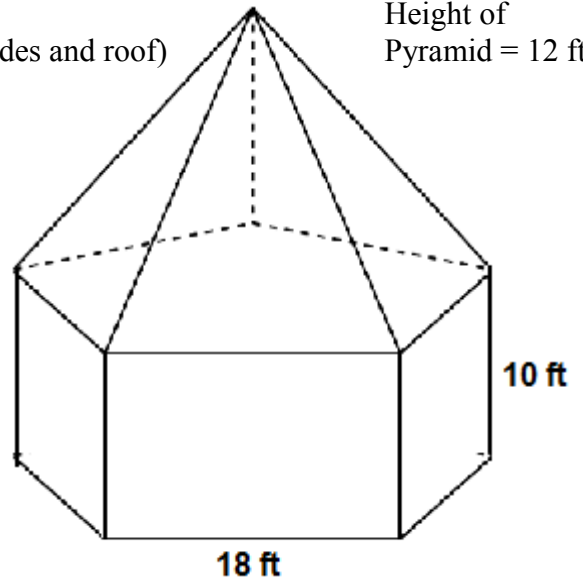


- 6.) The building below:

A right regular pentagon pyramid topping a regular pentagon prism.

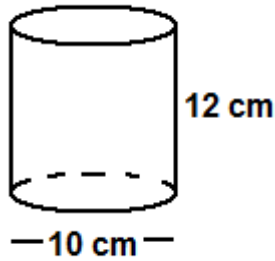
SA (sides and roof) Height of Pyramid = 12 ft

V

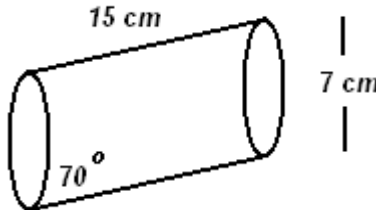


Cylinders

- 4.) SA and V



- 5.) Volume only.

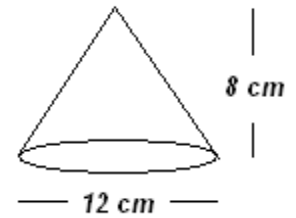


- 6.) Find the SA and V involving a roll of paper towel with overall diameter: 10 cm, diameter of inside: 4 cm, height: 25 cm.

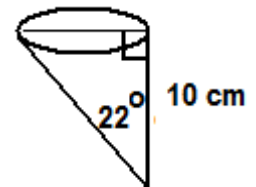


Cones

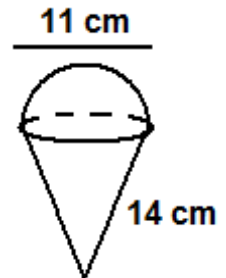
- 4.) Right Cone; SA and V



- 5.) Volume only.



- 6.) Hemisphere topping a right cone. SA and V.

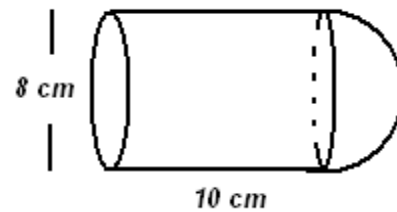


Spheres

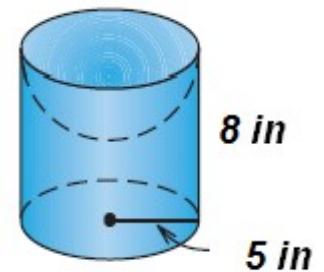
- 4.) A meatball has a diameter of 5 cm. If ground meat is 0.95 grams per cubic centimeter and 1 pound is 453.59 grams, how many pounds of meat would you need to make 50 meatballs?
- 5.) Three marbles are placed snug against each other in a box. Find the percentage of volume inside the box not occupied by the marbles given that the diameter of a marble is 5 cm.

Composite (Blend)

- 4.) A right cylinder with a hemisphere on the right hand side (it is capped on the left hand side). SA and V.

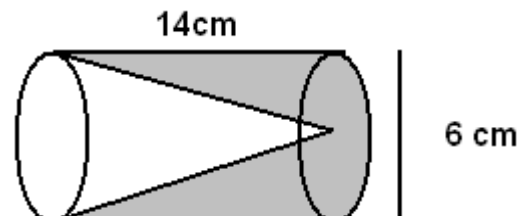


(Composite) 5.) The figure on the right consists of a right cylinder with a hemisphere opening inward on the top. SA and V.



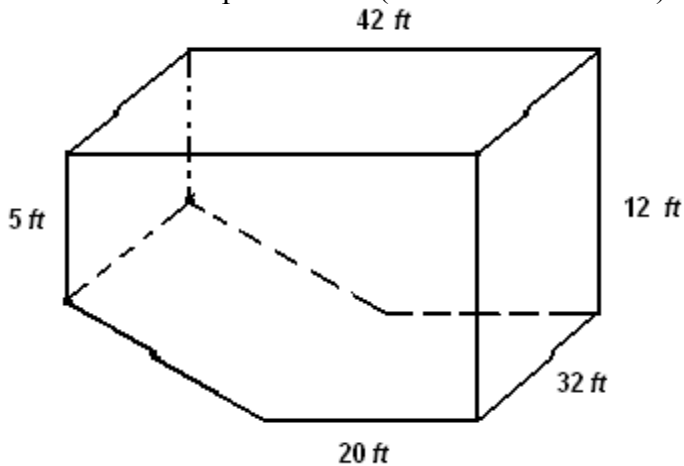
- 8.) A large, deep saucepan (diameter 18") has spaghetti sauce 2" from the top. What is the maximum number of 2.8" diameter meatballs that can be added to the pot before it spills over?

- 6.) Solid right cylinder of wood with a right cone cut out. SA and V.

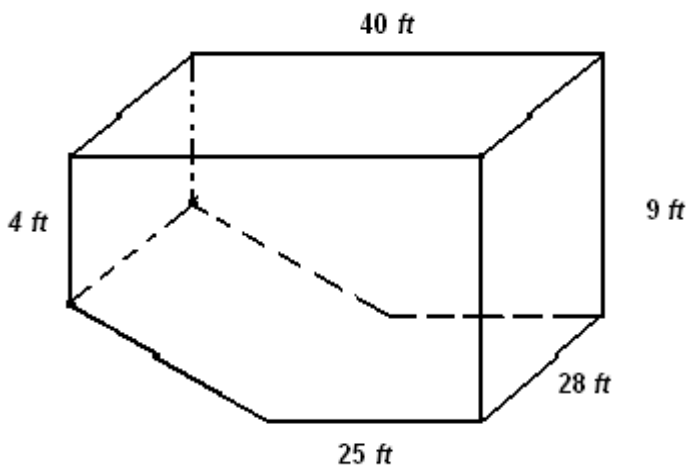


Pools

- 5.) (A) Find the volume of the pool below (in cubic feet). All sides are rectangles or right triangles.
- (B) If there are **7.481 gallons of water per cubic foot of water**, and **2 hoses pumping water at 45 gallons per minute each** begin pumping water into the empty pool at 2:20 AM Monday, what day and time would the pool be full (to the nearest second)?

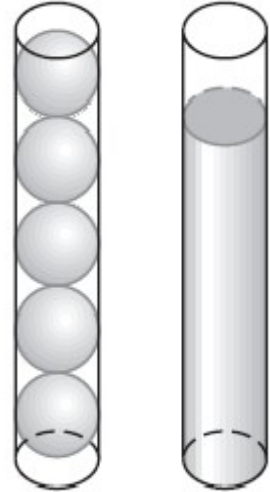


- 6.) (A) Find the volume of the pool below (in cubic feet). All sides are rectangles or right triangles.
- (B) If there are **7.481 gallons of water per cubic foot of water**, and **3 hoses pumping water at 30 gallons per minute each** begin pumping water into the empty pool at 5:20 AM Monday, what day and time would the pool be full (to the nearest second)?

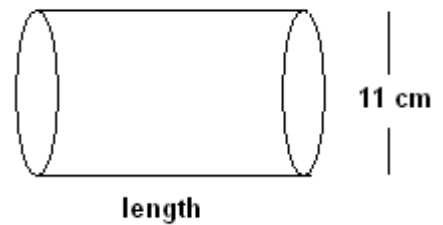


“Fun”

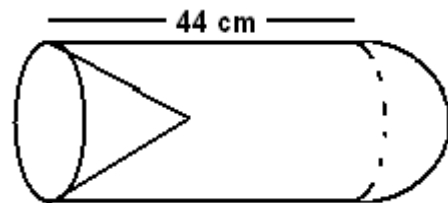
- 6.) Five spherical balls of wax (radius 3 cm) are placed in a cylindrical tube. The wax is melted and allowed to solidify. How deep is the new solidified wax?



- 7.) Find the length of the right cylinder below if its surface area is 1225 square centimeters. Also, find its volume.



- 8.) A solid right cylinder of wood with a right cone tunneled out and a hemisphere attached on the right.



diameter of cylinder = 18 cm
 volume of right cone = 950 cubic cm
 hemisphere attached on the right