

Name _____

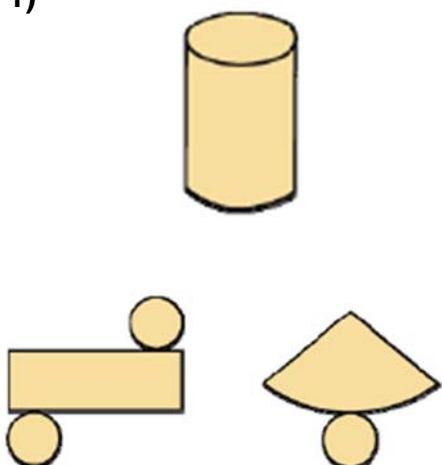
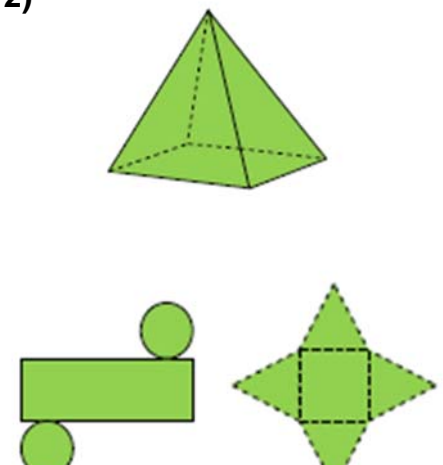
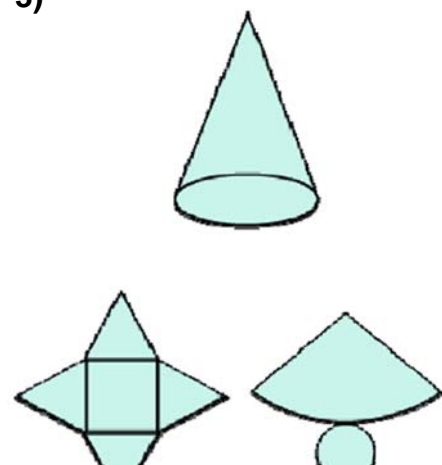
Date _____

Lesson 5: Three-Dimensional Objects

Nets

Video Help: <https://learnzillion.com/lessons/1219-represent-three-dimensional-figures-with-nets>

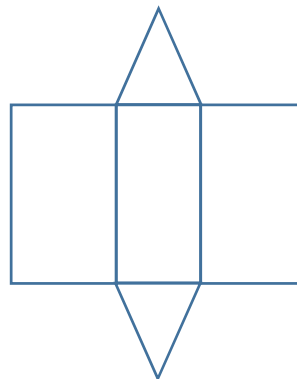
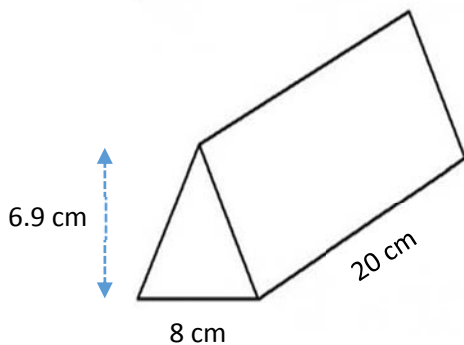
Directions: Circle the net that can be folded into the three-dimensional object.

<p>1)</p> 	<p>2)</p> 	<p>3)</p> 
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Surface Area Triangular Prism

Video help: <https://learnzillion.com/lessons/1224-analyze-triangular-prisms-to-find-surface-area-part-2>

4) A triangular prism with faces that are equilateral triangles is shown below. The net of this triangular prism is also shown.

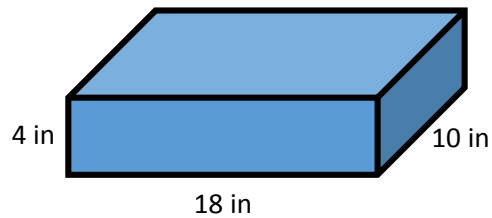


Find the surface area of the triangular prism.

Surface Area Triangular Prism

Video Help: <https://learnzillion.com/lessons/1222-find-surface-area-of-rectangular-prisms>

5) Draw the net of the rectangular prism shown below.

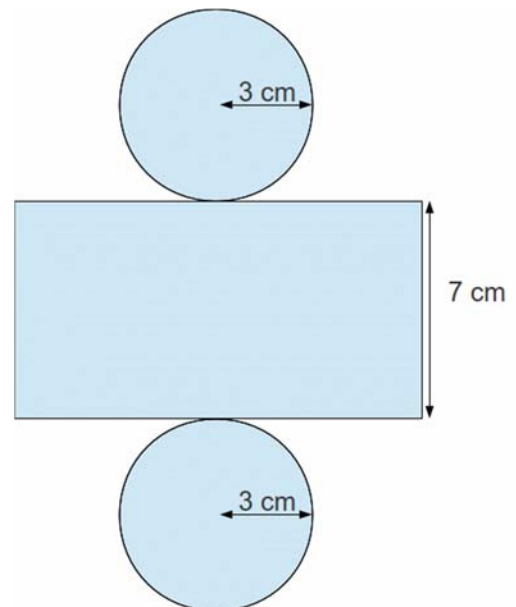
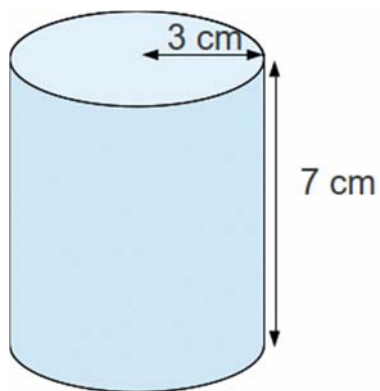


Find the surface area of the rectangular prism.

Surface Area Cylinder

Video Help: <https://www.khanacademy.org/math/basic-geo/basic-geo-volume-surface-area/basic-geo-volumes/v/cylinder-volume-and-surface-area>

6) A cylinder and its net is shown below.



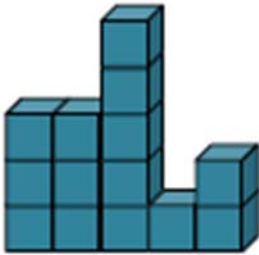
Find the surface area of the cylinder in terms of π .

Volume

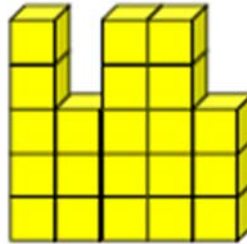
Video Help: <https://learnzillion.com/lessons/1803-use-multiplication-v-l-x-w-x-h-to-find-the-volume-of-a-solid-figure>

Directions: Find the volume of the following:

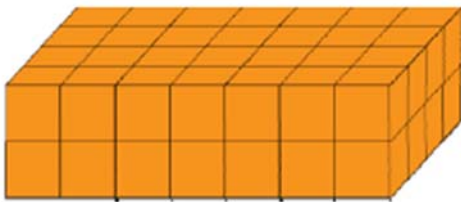
7)



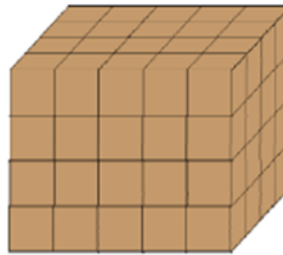
8)



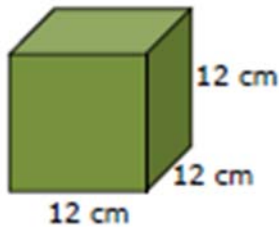
9)



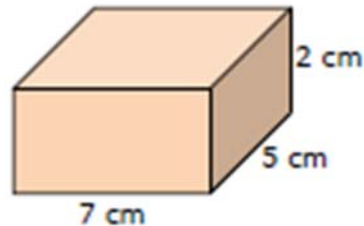
10)



11)



12)



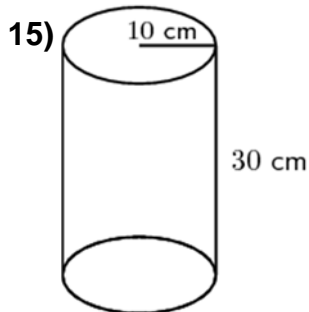
13) We are trying to determine the size air conditioning unit we will need to cool a classroom. The size of the air conditioner depends on the volume of the classroom. The classroom has a length of 19 meters, a width of 26 meters, and a height of 30 meters. What is the volume of the classroom?

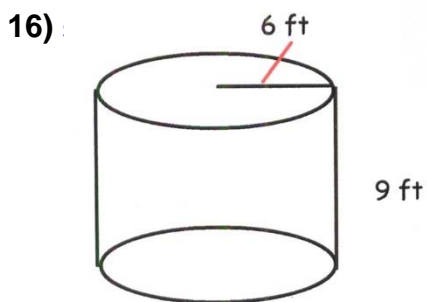
14) Robert has a cell phone box. The box is 19 inches long by 11 inches wide by 9 inches high. What is the volume of the box?

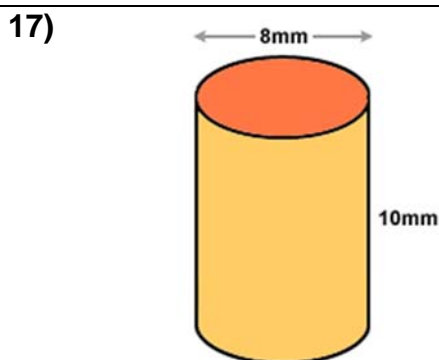
Volume of Cylinders

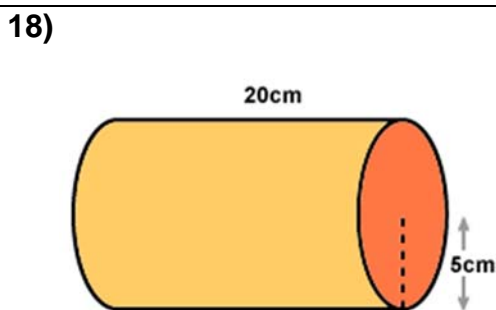
Video Help: <https://learnzillion.com/lessons/1353>

Directions: Find the volume of the following cylinders in terms of π :









19) What is the volume of a regular cylinder whose base has a radius of 14 cm and has a height of 6 cm?

20) Tennis balls are sold in aluminum cans that measure 10 inches in height and 3 inches in diameter. What is the volume of the container?

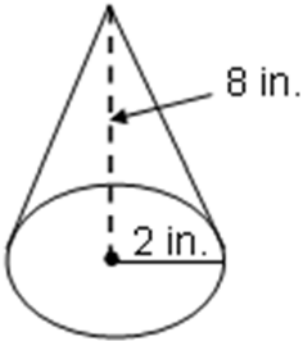
21) A glass has a diameter of 8 cm and a height of 14 cm. What volume of water will it take to fill in the glass?

Volume of Cones

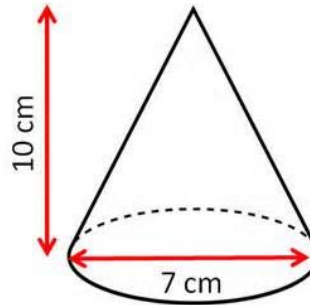
Video Help: <https://learnzillion.com/lessons/1358-develop-and-apply-the-formula-for-volume-of-a-cone>

Directions: Find the volume of the following cones in terms of π :

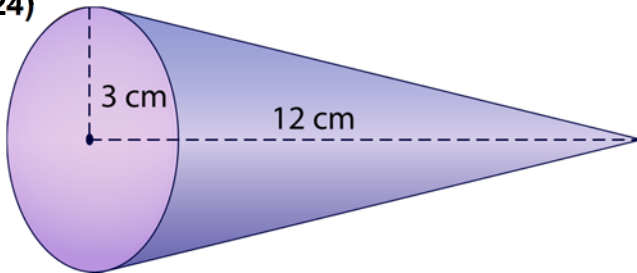
22)



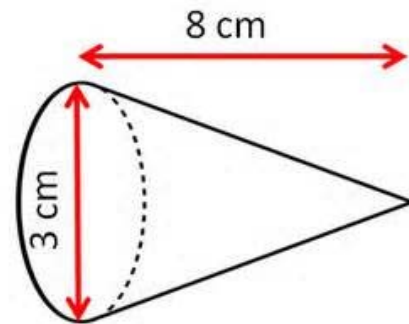
23)



24)



25)



26) A cone shaped cap has a radius of 7 in and a height of 17 in. Find the volume of the cap.

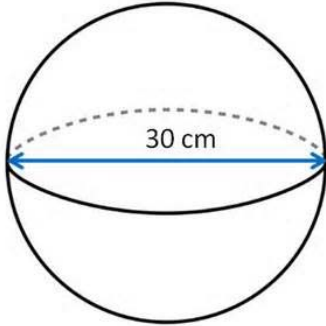
27) An ice cream package is cone shaped. It has a radius of 5.5 cm and a height of 17 cm. Find the volume of the ice cream cone.

Volume of Spheres

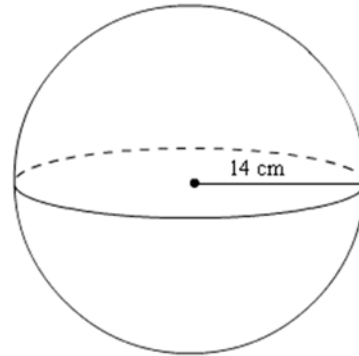
Video Help: <https://learnzillion.com/lessons/1361-develop-and-apply-the-formula-for-volume-of-a-sphere>

Directions: Find the volume of the following sphere in terms of π :

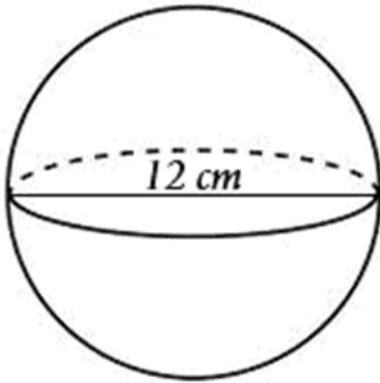
28)



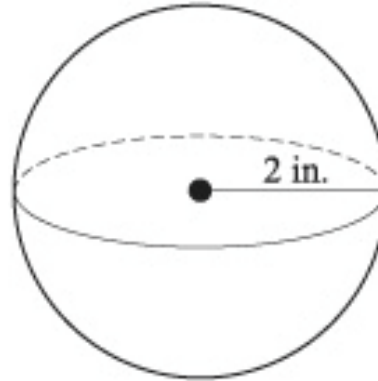
29)



30)



31)



32) Michelle has a globe. The globe has a diameter of 18 cm. Find the volume of the globe.

33) Estimate the volume of air in a beach ball that has a 15 inch diameter. Round your answer to the nearest whole number.
