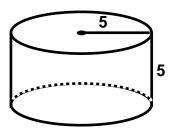
Review: SURFACE AREA & VOLUME OF NETS, PRISMS, PYRAMIDS, CYLINDERS, CONES & SPHERES

NAME: ______ DATE: _____ PERIOD: _____

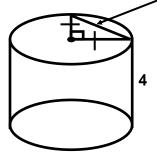
For # 1 - 17, use the appropriate formula to determine the surface area and / or volume of each figure described. For APPROXIMATE answers, round to the nearest hundredth place value.

1. S(Lateral) ≈ _____ Find the APPROXIMATE lateral area and total area of the cylinder:

S(*Total Area*) ≈ _____

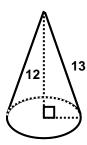


2. V = Given $r = \sqrt{2}$, find the exact volume of the cylinder:



3. S(*Lateral*) = _____ Find the EXACT lateral area and total area of the cone:

S(Total Area) = _____



4. V = _____ Find the EXACT volume of the cone:

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5	I —		
J.	ı —		

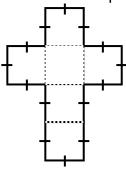
A cone has a lateral area of 80π in 2 and a radius of 8 in. Find its slant height.



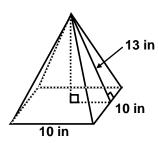
A cone has a volume of 225π cm³ and a height of 15 cm. Find its radius.

7. _____

The net BEST represents which solid?

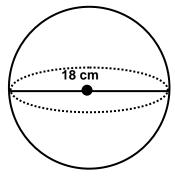


Find the APPROXIMATE Total Surface Area.



9.			

Find the volume of the sphere:



10. r = The surface area of a sphere is 576π square units.

Find the volume of a cube with a base edge of 4 cm.

The volume of a cone is 100π cubic units. Its height is 12 units.

S(Total) =

13. S(lateral) = The volume of a cylinder is 117π in³ and its radius is 3 in.

14. S(total) = The volume of a cone is 1080π ft³ and the radius is 9 ft.

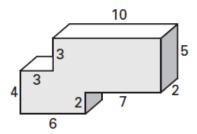
15	S(total)		
IJ.	SHUIGH	_	

If the volume of a cone is 12π ft³ and the radius is 3 ft.

The area of the base of a prism is 4x square inches, and the height of the prism is 2.5x inches. If the prism has a volume of 1,000 cubic inches, what is the value of 'x'?

A cube has a side of 7 centimeters.

Find the volume of the solid by determining how many unit cubes are contained in the solid.



Find the volume of the solid by determining how many unit cubes are contained in the solid.

