

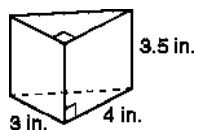
Geometry Chapter 12 Practice

Feel free to work together. Work in pencil. This worksheet should be submitted to your homework folder by the end of the class period.

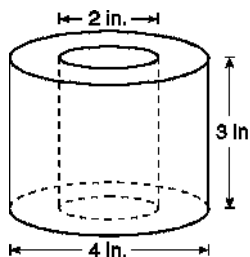
1. Sketch (if possible) a polyhedron with 6 faces and 8 vertices.

2. A polyhedron has 9 faces and 21 edges. How many vertices does it have? Explain your answer.

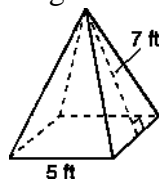
3. Find the surface area of the right prism below.



4. The figure shown below is a cylindrical solid with a circular cylindrical hole drilled out of the center. Find the surface area of the resulting solid.

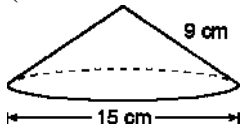


5. The pyramid below has a square base and a slant height of 7 ft. Find its surface area.

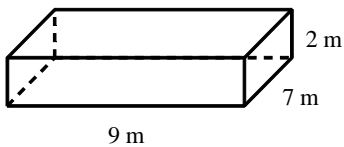


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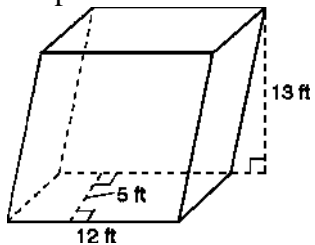
6. Find the surface area of the right cone below.
(Round the result to two decimal places.)



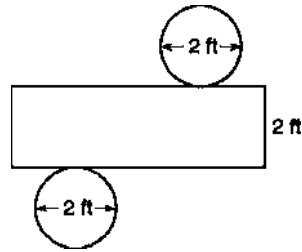
7. Find the volume of the rectangular prism.



8. A prism has congruent parallelograms for bases. One pair of parallel sides of the parallelogram measure 12 feet and are 5 feet apart. The altitude of the prism is 13 feet. Find the volume of the prism.



9. Find the surface area and volume of the cylinder that can be folded from the net shown below.



10. The pyramid shown has a rectangular base and faces that are isosceles triangles. Find its volume.

