

Set 10-13 (pages 582–583)

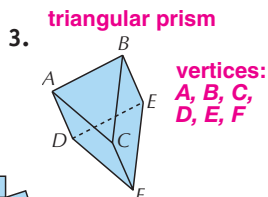
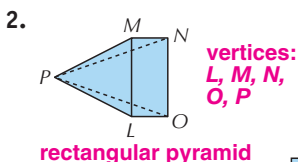
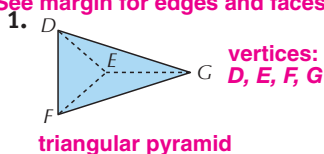
Decide if the problem has extra or missing information. Solve if you have enough information.

- The floor of a storage closet is a rectangle, 5 feet long and 6 feet wide. If 120 square tiles are used to cover the entire floor and each tile has a perimeter of 24 inches, what is the area of the closet floor? **Extra information: the perimeter of each tile and number of tiles; 30 ft²**
- Calvin is making a house front for the school play. The bottom of the house front is a 7 ft by 6 ft rectangle. The roof is an equilateral triangle with 7-foot long sides. How many square feet of wood does Calvin need to make the house front? **Missing information: the height of the triangular roof**

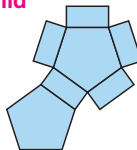
Set 10-14 (pages 586–589)

Classify each polyhedron. Name all vertices, edges, and faces.

See margin for edges and faces.

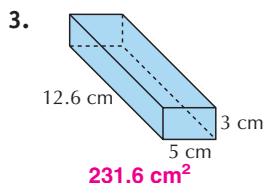
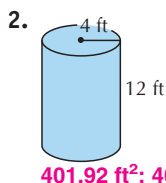
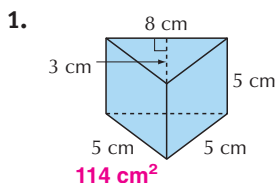


4. The net at right is an unfolded cardboard box. What is the shape of the folded box?
pentagonal prism



Set 10-15 (pages 590–593)

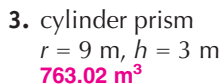
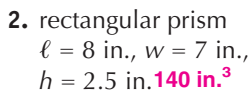
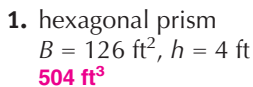
Find the surface area of each solid. Use 3.14 or $\frac{22}{7}$ for π .



4. Which has the greatest surface area, a cube with $s = 8$ m, or a rectangular prism with dimensions $\ell = 6$ m, $w = 5$ m, and $h = 12$ m? **cube**

Set 10-16 (pages 594–597)

Find the volume of each solid. Use 3.14 or $\frac{22}{7}$ for π .



4. The volume of a cube is 729 m³. Find the length of each side.
9 m