

Name \_\_\_\_\_ Date \_\_\_\_\_

## Backyard Barbecue Introduction to Volume and Surface Area

### Vocabulary

Write the term from the box that best completes each statement.

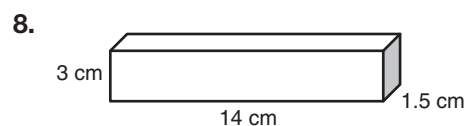
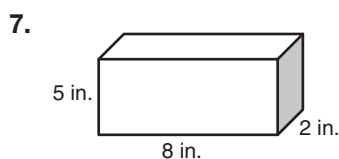
surface area	edge	solid	volume	polyhedron	face
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1. The \_\_\_\_\_ of a polyhedron is the sum of the areas of its faces.
2. The line segment common to two sides of a three-dimensional figure is called a(n) \_\_\_\_\_.
3. The \_\_\_\_\_ of a solid is the number of cubic units that will completely fill the interior of the solid.
4. A solid with flat surfaces that are polygons is called a(n) \_\_\_\_\_.
5. A(n) \_\_\_\_\_ is a three-dimensional figure formed by intersecting planes or surfaces.
6. The flat surface of a solid is called a(n) \_\_\_\_\_.

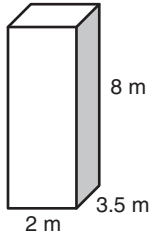
2

### Problem Set

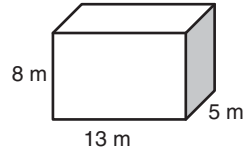
Calculate the volume of each rectangular prism.



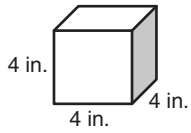
9.



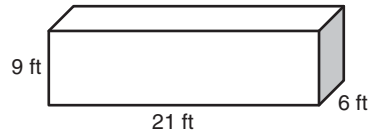
10.



11.



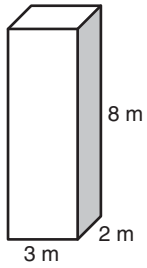
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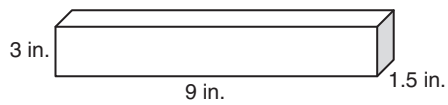
2

Calculate the surface area of each rectangular prism. Round to the nearest tenth when necessary.

13.



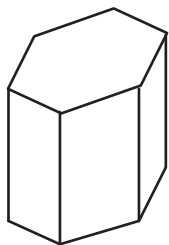
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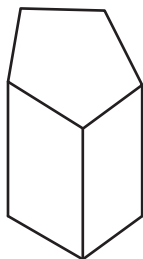
## Problem Set

Label the visible bases and lateral faces of each prism.

11.

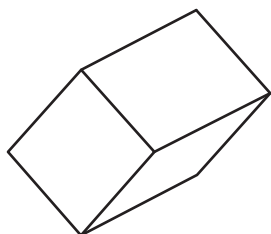


12.

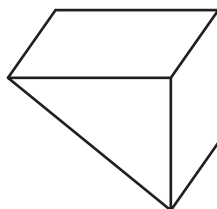


2

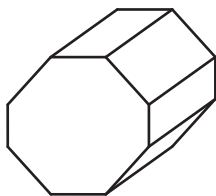
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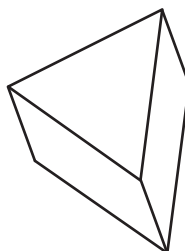
14.



15.



16.

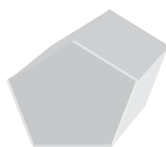


Classify each prism.

17.



18.



19.



20.

