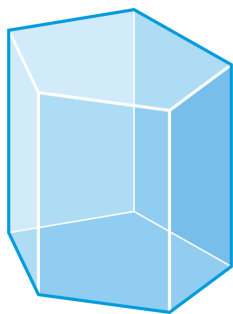


## Volume of Prisms and Cylinders



### **Benchmark**

**9.3.1.2** Compose and decompose two- and three-dimensional figures; use decomposition to determine the perimeter, area, surface area and volume of various figures.

**9.3.1.3** Understand that quantities associated with physical measurements must be assigned units; apply such units correctly in expressions, equations and problem solutions that involve measurements; and convert between measurement systems.

Essential Question: What does volume mean?

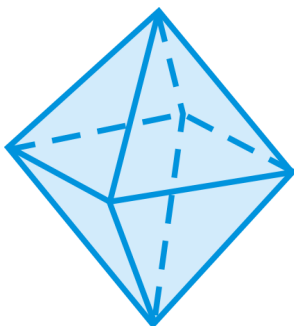
### **Learning Targets:**

**I can... Find the volume of a prism**

**I can... Find the volume of a cylinder**

## **Review Questions**

1. Define volume in your own words.
2. What is the surface area of a cube with 3 inch sides?
3. What is the surface area of a cube with  $4\sqrt{2}$  inch sides?
4. A regular octahedron has 8 congruent equilateral triangles as the faces.



- a. If each edge is 4 cm, what is the surface area of the figure?
- b. If each edge is  $s$ , what is the surface area of the figure?

