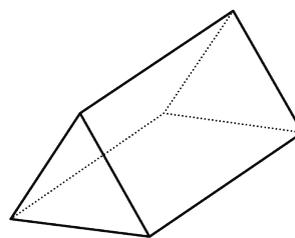


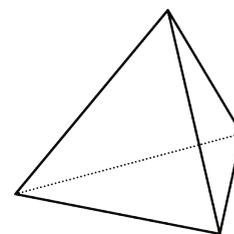
## Lesson 11 Practice Problems

1. Here are two three-dimensional figures.

Tell whether each of the following statements describes Figure A, Figure B, both, or neither.

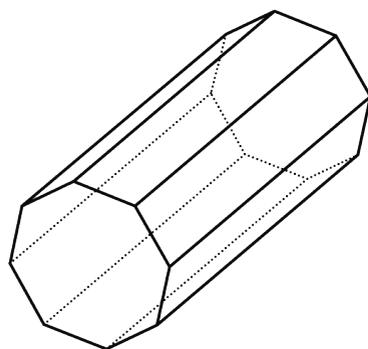


A



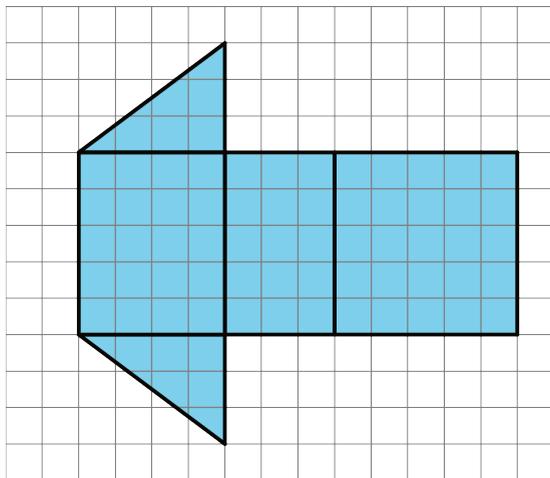
B

- a. This figure is a polyhedron.
  - b. This figure has triangular faces.
  - c. There are more vertices than edges in this figure.
  - d. This figure has rectangular faces.
  - e. This figure is a pyramid.
  - f. There is exactly one face that can be the base for this figure.
  - g. The base of this figure is a triangle.
  - h. This figure has two identical and parallel faces that can be the base.
2. a. Is this polyhedron a prism, a pyramid, or neither? Explain how you know.



- b. How many faces, edges, and vertices does it have?

3. a. What polyhedron can be assembled from this net? Explain how you know.



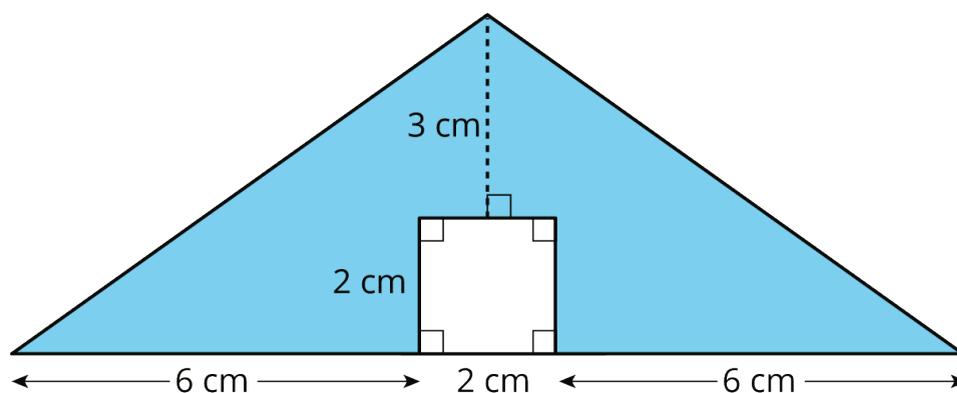
- b. Find the surface area of this polyhedron. Show your reasoning.

4. a. A parallelogram has a base of 12 meters and a height of 1.5 meters. What is its area?
- b. A triangle has a base of 16 inches and a height of  $\frac{1}{8}$  inches. What is its area?
- c. A parallelogram has an area of 28 square feet and a height of 4 feet. What is its base?
- d. A triangle has an area of 32 square millimeters and a base of 8 millimeters. What is its height?

(From Unit 1, Lesson 8.)

5. Find the area of the shaded region. Show or explain your reasoning.

**E**



(From Unit 1, Lesson 3.)