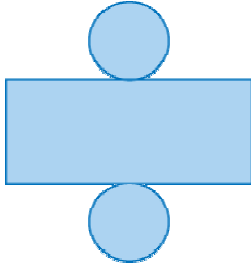


## Lesson 10-2

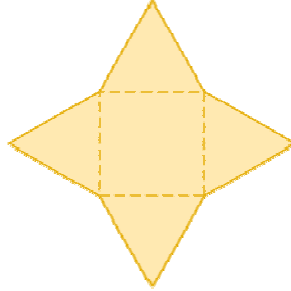
## Example 1

What three-dimensional figure is represented by each net?

a.



b.



c.



## Solution

Visualize each net being folded to form a three-dimensional figure.

- a. This figure will have two parallel circular bases. It is a right cylinder.
- b. This figure will have four triangular sides and a square base. It is a right square pyramid.
- c. This figure will have four rectangular sides and two parallel square bases. It is a rectangular prism.

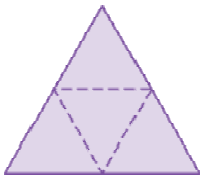
## Example 2

Draw a net for each three-dimensional figure.

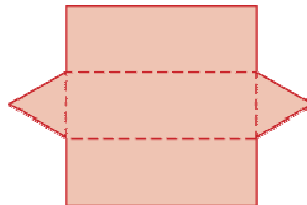
- a. a triangular pyramid
- b. a triangular prism

## Solution

a.



b.



**Example 3**

**HOBBIES** Nathan is building some letter and number blocks for his niece. Each block is shaped like a cube with a side length of 3 in. How much paint would be needed to completely cover the surface of one of the blocks?

**Solution**

Draw the net for one of the blocks, and calculate the area of the six sides. Each side is a square with dimensions 3 in. by 3 in.

$$A = 3 \times 3 = 9 \text{ in}^2$$

Multiply the area by 6 to find the total surface area of the block.

$$SA = 6 \times 9 = 54 \text{ in}^2$$

Each block will require 54 in<sup>2</sup> of paint.

