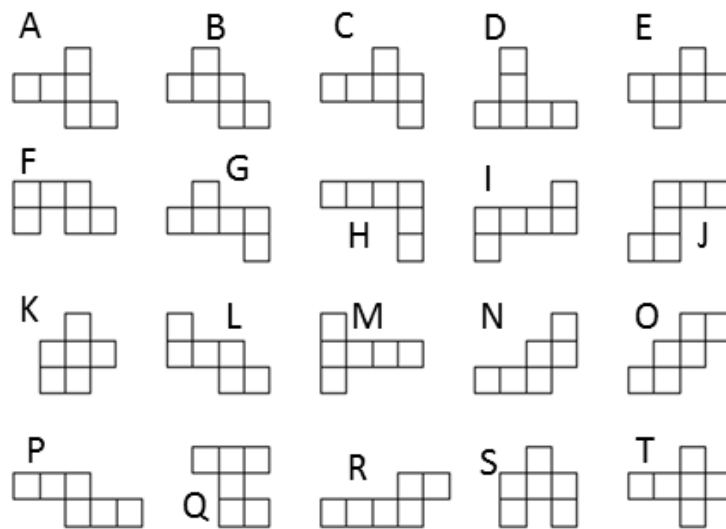# Lesson 15: Representing Three-Dimensional Figures Using Nets

Classwork

Exercise: Cube

1. Nets are two-dimensional figures that can be folded up into three-dimensional solids. Some of the drawings below are nets of a cube. Others are not cube nets; they can be folded, but not into a cube.

a.   Experiment with the larger cut out patterns provided. Shade in each of the figures above that will fold into a cube.

b.   Write the letters of the figures that can be folded up into a cube.

c.   Write the letters of the figures that cannot be folded up into a cube.

Lesson Summary

Nets are two-dimensional figures that can be folded to create three-dimensional solids.

A prism is a solid geometric figure whose two bases are parallel to identical polygons and whose sides are parallelograms.

A pyramid is a solid geometric figure formed by connecting a polygonal base and a point and forming triangular lateral faces. (Note: The point is sometimes referred to as the apex.)
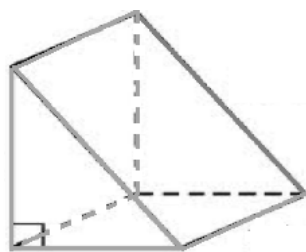

Problem Set

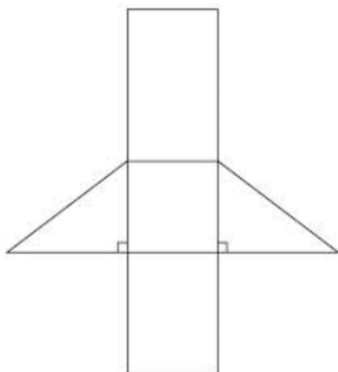1. Match the following nets to the picture of its solid. Then, write the name of the solid.
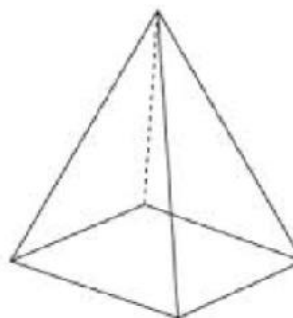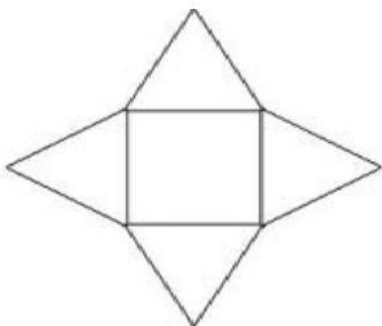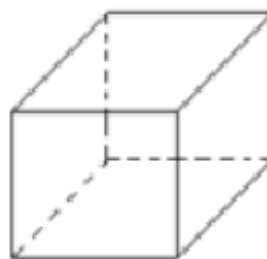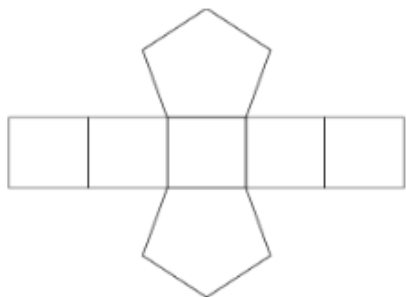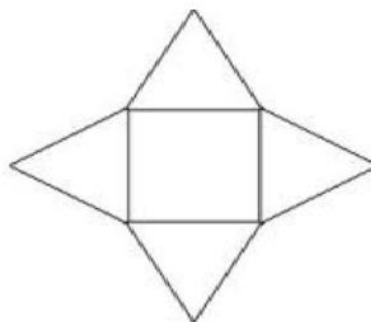
a.
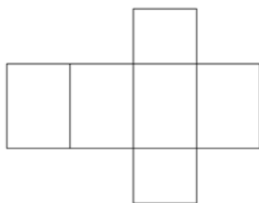
d.

b.

e.

c.

f.

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2. Sketch a net that will fold into a cube.

3. Below are the nets for a variety of prisms and pyramids. Classify the solids as prisms or pyramids, and identify the shape of the base(s). Then, write the name of the solid.
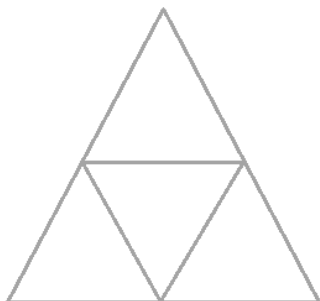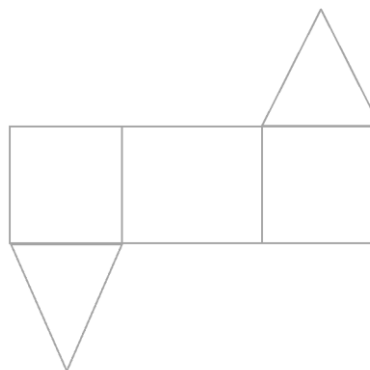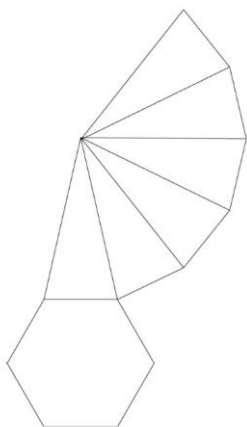
   a.

   b.

   c.

   d.

   e.

   f.