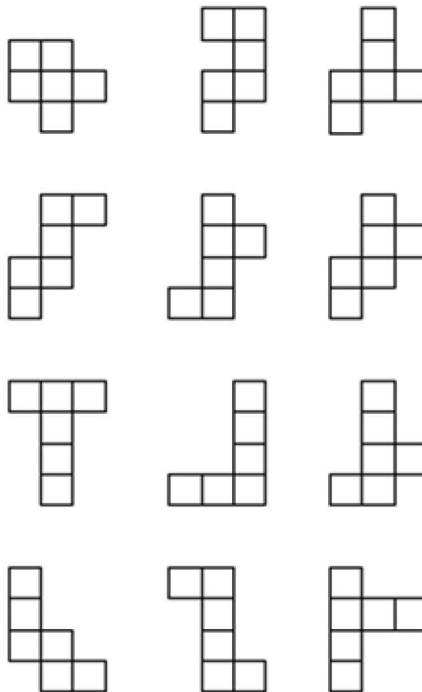Name _____   Date _____

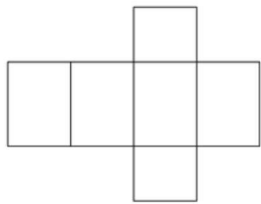# Representing Three-Dimensional Figures Using Nets

1. What is a net? Describe it in your own words.

2. Which of the following will fold to make a cube? Explain how you know.
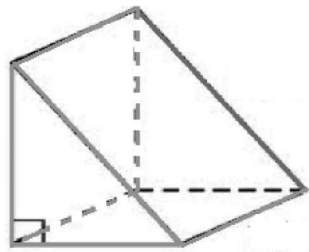
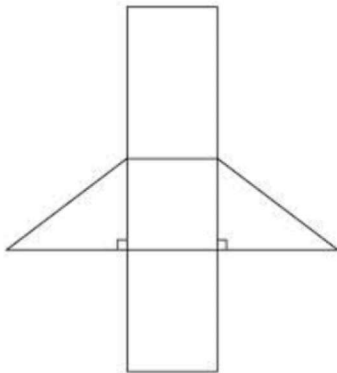1. Match the following nets to the picture of its solid. Then, write the name of the solid.
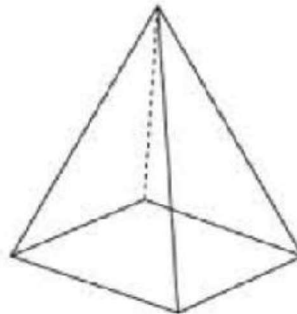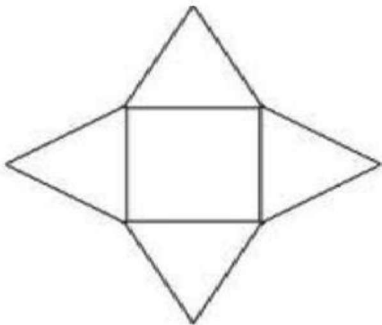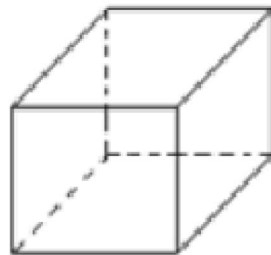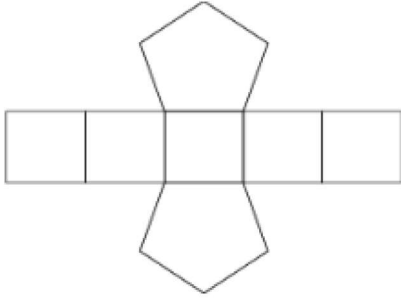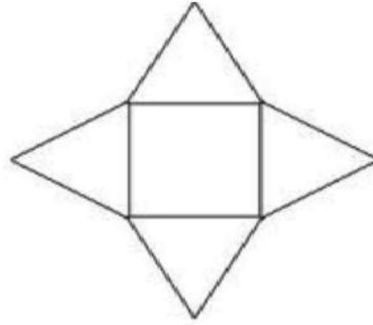
a.

d.

b.

e.

c.

f.

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.
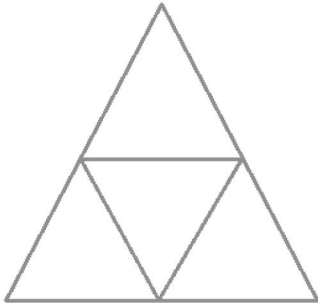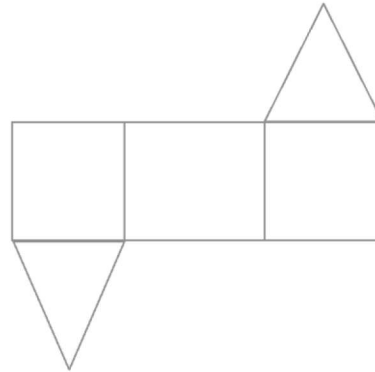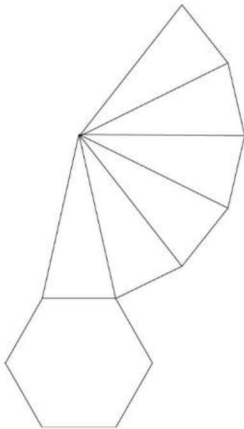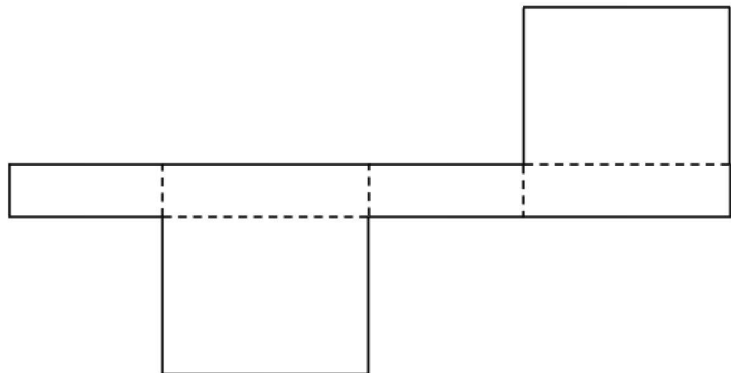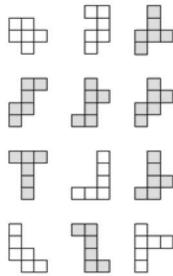
a.

b.

c.

d.

e.

f.

1. **What is a net? Describe it in your own words.**

   Answers will vary but should capture the essence of the definition used in this lesson. A net is a two-dimensional figure that can be folded to create a three-dimensional solid.
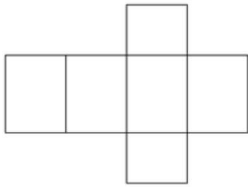
2. **Which of the following will fold to make a cube? Explain how you know.**

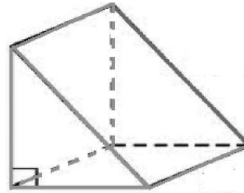   *Evidence for claims will vary.*

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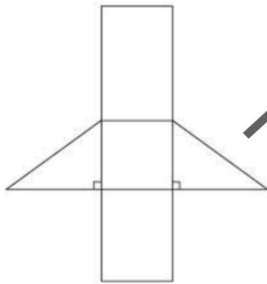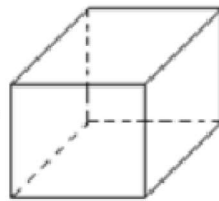
   a.

   d.

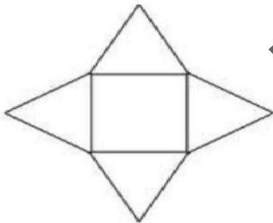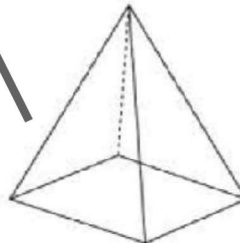   *Right triangular prism*

   b.

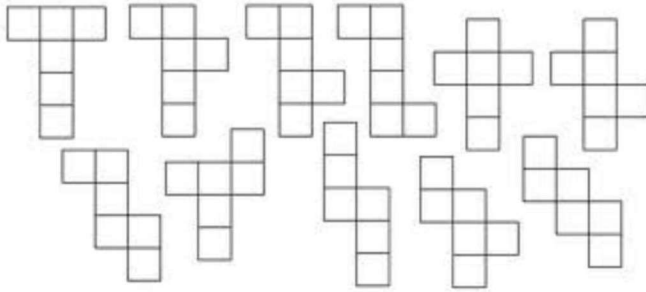   e.

   Rectangular pyramid

   c.

   f.

   Rectangular prism

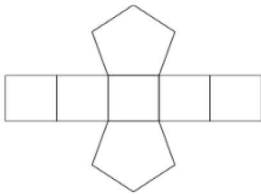**2.** Sketch a net that will fold into a cube.

Sketches will vary but will match one of the shaded ones from earlier in the lesson.
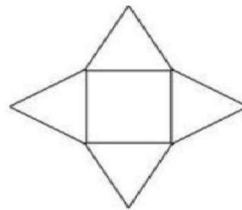
Here are the 11 possible nets for a cube.

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.

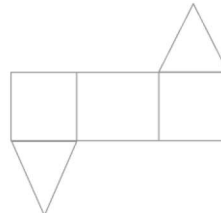*Prism, the bases are pentagons.*
Pentagonal Prism

b.

Pyramid, the base is a rectangle.
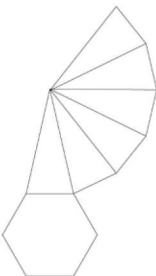*Rectangular Pyramid*

c.

Pyramid, the base is a triangle.
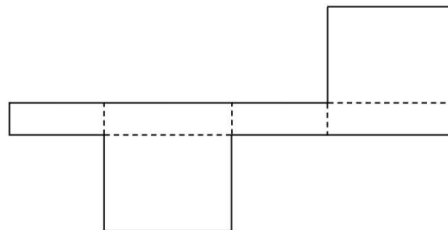*Triangular Pyramid*

d.

Prism, the bases are triangles.
Triangular Prism

e.

Pyramid, the base is a hexagon.
Hexagonal Pyramid

f.

Prism, the bases are rectangles.
Rectangular Prism

Below are graphics needed for this lesson. The graphics should be printed at 100% scale to preserve the intended size of figures for accurate measurements. Adjust your copier or printer settings to actual size, and set page scale to *none*.