Inspiring Greatness

INDEPENDENCE SCHOOL DISTRICT

Math Virtual Learning

Geometry/Honors Geometry

April 20, 2020

Grade/Course

Lesson: April 20th, 2020

Objective/Learning Target:

Students will use a variety of models to represent 3-D figures (nets, orthogonal drawings, cross-section, figures formed by transforming 2-D objects).

Warm-Up

1)What is a face of a 3-D shape?
2) What is the edge of a 3-D shape?
3) What is a cross-section of a 3-D shape?

Warm-Up Answers

1) Face is is a flat (planar) surface that forms part of the boundary of a solid object
2) Edge is a particular type of line segment joining two vertices in a polygon, polyhedron, or higher-dimensional polytope
3) Cross Section is the shape formed when a plane intersects a **3D** figure

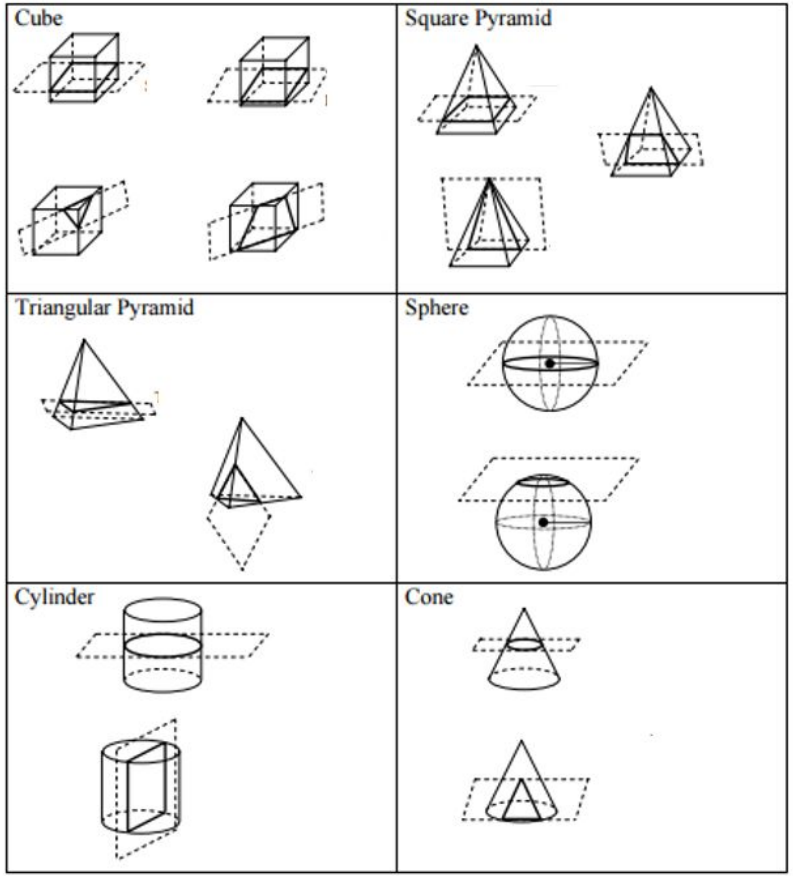
Lesson

Please watch the following examples:

First Video: In this example focus on the number of faces and edges of a 3-D Shape

Second Video: This video explains polyhedra and how 3-D shapes unfold.

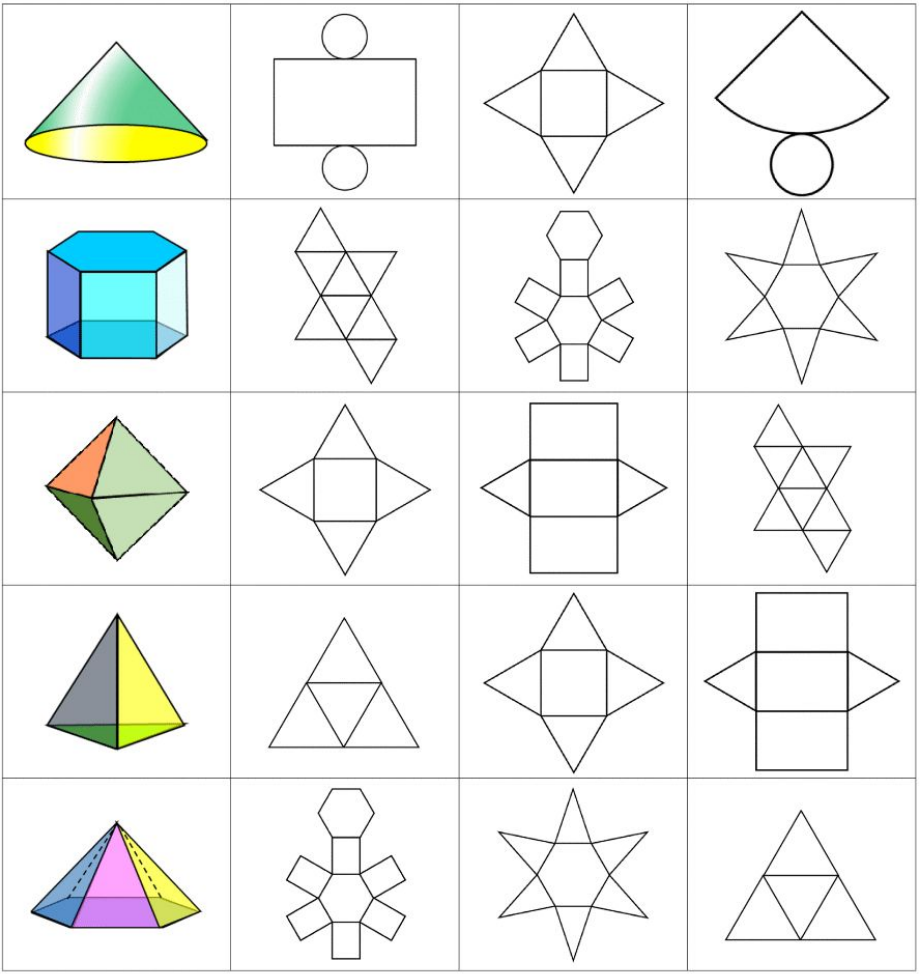
Lesson, cont.



Cross Sections of
3-D Shapes Notes

FIND THE NETS SHEET 2

For each 3d shape, shade the correct net.



Practice

Answers

1) 3rd
2) 2nd
3) 1st
4) 1st
5) 2nd

Khan Academy Practice

Click on the links and try to get a perfect score. You can re-work these problems as many times as you need.

Faces and Edges

Polyhedra