

# End-of-Unit Assessment Study Guide

## Geometry

Test on or around Tuesday, November 19

*Students should use their flashcards to review.*

*IXL Objectives: W.4-W.5, X.4-X.8 and AA.1-AA.4*

### 2-D Geometry

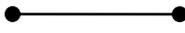
- Students should be able to:
  - Investigate and describe the relationships between points, lines, line segments, and rays.



POINT, ENDPOINT, VERTEX (if two lines cross or meet at the point)



LINE: Goes on in two directions forever

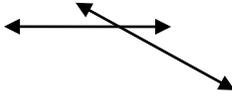


LINE SEGMENT: Two endpoints



RAY: Goes in one direction forever, one endpoint

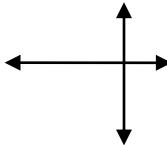
- Identify, describe, and draw representations of lines that which illustrate intersection, parallelism, and perpendicularity.



INTERSECTING: Lines, lines segments or rays that cross at a vertex



PARALLEL: Lines, line segments or rays that never cross



PERPENDICULAR: Lines, lines segments or rays that cross forming right angles

- Understand the properties of polygons

**Polygon:** closed, flat figure with straight sides

**Triangle:** polygon with three sides and three angles

**Quadrilateral:** four-sided polygon

**Parallelogram:** quadrilateral with two sets of parallel sides

**Trapezoid:** quadrilateral with one pair of parallel sides

**Rhombus:** quadrilateral with four equal sides

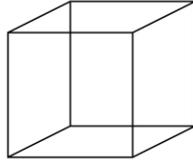
**Rectangle:** quadrilateral with four right angles

**Square:** polygon with four equal sides, four right angles

### 3-D Geometry

- Students should be able to identify, describe, compare, and contrast plane and solid figures according to their characteristics (number of angles, vertices, edges, and the number and shape of faces), using concrete models and pictorial representations.

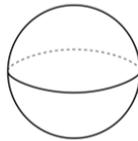
- Students will be able to describe the following 3D shapes:
  - a cube is a solid figure with six congruent, square faces. All edges are the same length. A cube has eight vertices and 12 edges.



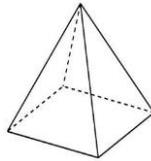
- a rectangular prism is a solid figure in which all six faces are rectangles. A rectangular prism has eight vertices and 12 edges. A cube is a special case of a rectangular prism.



- a sphere is a solid figure with all of its points the same distance from its center.

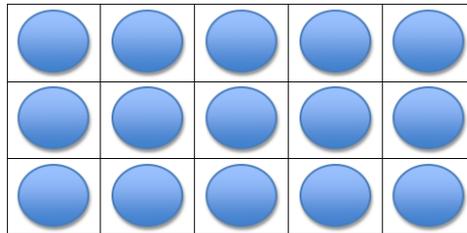


- a square pyramid is a solid figure with a square base and four faces that are triangles with a common vertex. A square pyramid has five vertices and eight edges.



## Area and Perimeter

- Students should know that area is the surface included within a plane figure. Students should be able to find the area of rectangles.
  - Example: Find the area of the figure below.



- Students should know that perimeter is the distance around a plane figure. Students should be able to find the perimeter of a figure when given the length of its sides.
  - Example: Find the perimeter of the figure below

