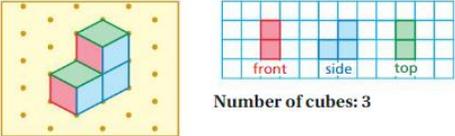
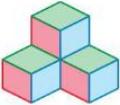
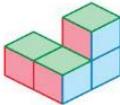


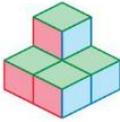
I can show how three dimensional figures can be made using two dimensional nets.

**Notes:**

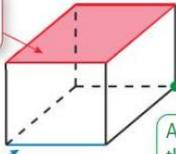
a. Sample:  Number of cubes: 3

b. 

c. 

d. 

A **solid** is a three-dimensional figure that encloses a space. A **polyhedron** is a solid whose *faces* are all polygons.



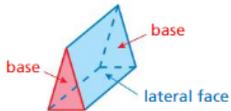
A **face** is a flat surface of a polyhedron.

An **edge** is a line segment where two faces intersect.

A **vertex** is a point where three or more edges intersect.

**Prisms**

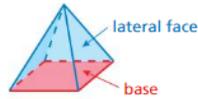
A **prism** is a polyhedron that has two parallel, identical *bases*. The *lateral faces* are parallelograms.



Triangular Prism

**Pyramids**

A **pyramid** is a polyhedron that has one base. The lateral faces are triangles.



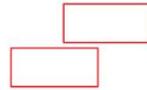
Rectangular Pyramid

The shape of the base tells the name of the prism or the pyramid.

**a. Draw a rectangular prism.**

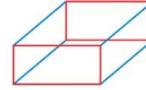
**Step 1:**

Draw identical rectangular bases.



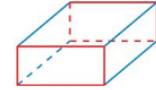
**Step 2:**

Connect corresponding vertices.



**Step 3:**

Change any *hidden* lines to dashed lines.



**b. Draw a triangular pyramid.**

**Step 1:**

Draw a triangular base and a point.



**Step 2:**

Connect the vertices of the triangle to the point.

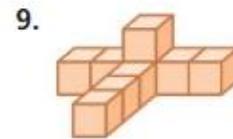
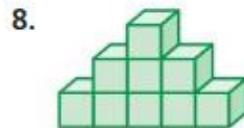
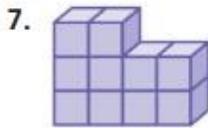


**Step 3:**

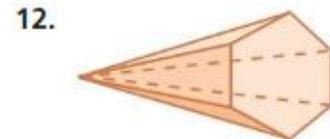
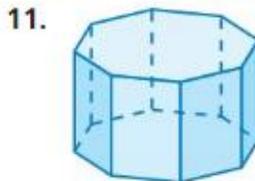
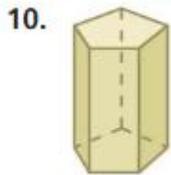
Change any *hidden* lines to dashed lines.



**Draw the front, side, and top views of the stack of cubes. Then find the number of cubes in the stack.**



**Find the number of faces, edges, and vertices of the solid.**



**Draw the solid.**

13. triangular prism

15. rectangular pyramid

14. pentagonal prism

16. hexagonal pyramid