## Grade 7 Unit 5 Vocabulary

3-Dimensional Geometry
(7.8A, 7.8B, 7.9A, 7.9D)

3-Dimensional-Having three dimensions (such as height, width and depth), like any object in the real world.

## Figures that have volume



Base - the face of a 3-dimensional figure by which it is classified.

## The side that names a 3-D figure



Lateral Face - the face or faces of a 3dimensional figure that is not a base.

## The sides that are not the base(s)



## Prism-a3-

 dimensional figure with two parallel congruent faces called bases and rectangular lateral faces.
## A solid object with two identical bases and rectangular sides.



# Pyramid-a 3-dimensional figure with one base and triangular lateral faces. 

## A solid object with one base and triangular sides.

Types of Pyramids


# Net-a 2-dimensional representation that can be folded to form a 3-dimensional figure. 

A pattern that you can cut and fold to make a model of a solid shape.


Volume the amount of space a 3dimensional object occupies measured in cubic units.

## The amount of 3-dimensional space something takes up.



$\equiv 60$
blocks total

## Surface Area - the sum of the areas of all

 the faces, including the bases, of a 3dimensional figure.
## The total area of ALL of the sides of a threedimensional object.



| Face | Area |
| :---: | :---: |
| Bottom | $5 \times 3=15$ |
| Top | 15 |
| Front | $5 \times 2=10$ |
| Back | 10 |
| Right side | $2 \times 3=6$ |
| Left side | 6 |

Total surface area $=15+15+10+10+6+6$ $-62 \mathrm{~cm}^{2}$

Lateral Surface Area - the sum of the areas of all the lateral faces, not the bases, of a 3dimensional figure.

The total area of the sides of a three-dimensional object without the bases.


Left Side Face


Front Face


Right Side Face


Back Face

Slant Height - the height of a triangular face of a pyramid.

The distance up the side of a pyramid.


