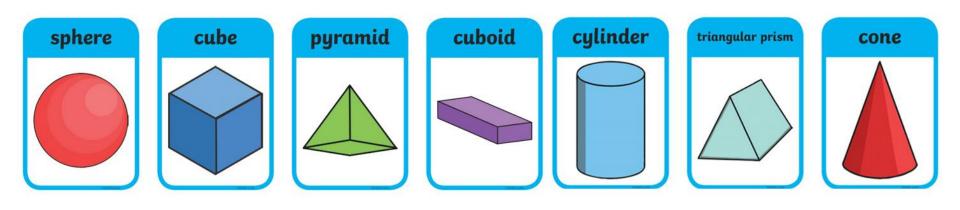
Grade 7 Unit 5 Vocabulary

3-Dimensional Geometry

(7.8A, 7.8B, 7.9A, 7.9D)

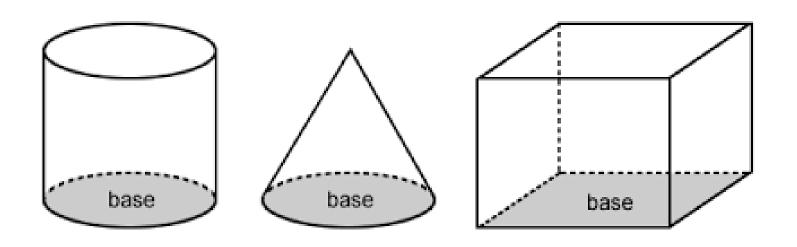
<u>3-Dimensional</u>— Having three dimensions (such as height, width and depth), like any object in the real world.

Figures that have volume



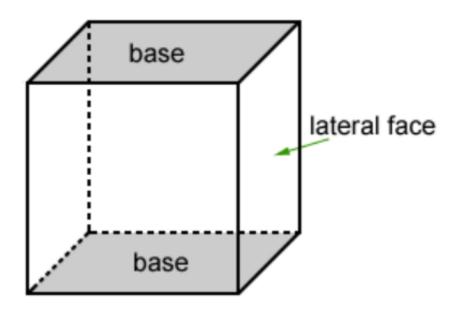
<u>Base</u>— the face of a 3-dimensional figure by which it is classified.

The side that names a 3-D figure



<u>Lateral Face</u>—the face or faces of a 3-dimensional figure that is not a base.

The sides that are not the base(s)



Prism – a 3 – dimensional figure with two parallel congruent faces called bases and rectangular lateral faces.

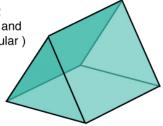
A solid object with two identical bases and rectangular sides.

Prism Shapes



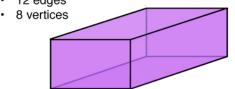
Triangular

- 5 faces (2 triangular and 3 rectangular)
- 9 edges
- · 6 vertices



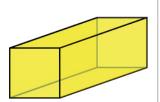
Rectangular

- 6 faces (all rectangular)
- 12 edges



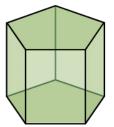
Square

- 6 faces (2 squares and 4 rectangular)
- 12 edges
- 8 vertices



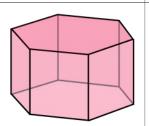
Pentagonal

- 7 faces (2 pentagonal and 5 rectangular)
- 15 edges
- 10 vertices



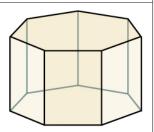
Hexagonal

- 8 faces (2 hexagonal and 6 rectangular)
- 18 edges
- 12 vertices



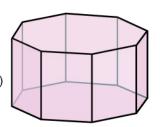
Heptagonal

- 9 faces (2 Heptagonal and 7 rectangular)
- 19 edges
- 14 vertices



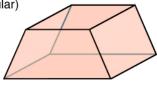
Octagonal

- · 10 faces (2 octagonal and 8 rectangular)
- 24 edges
- · 16 vertices



Trapezoidal

- 6 faces (2 trapezoidal and 4 rectangular)
- 12 edges
- 8 vertices

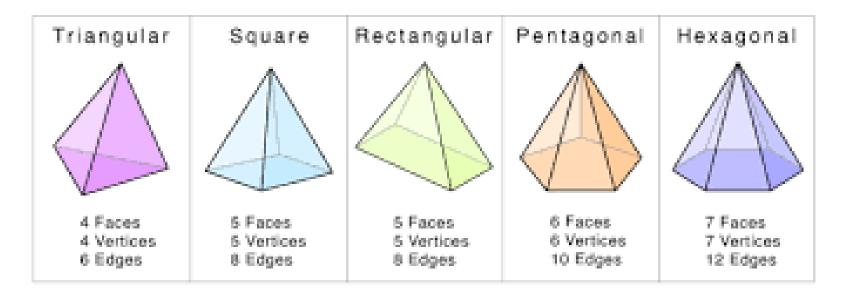


<u>Pyramid</u>— a 3-dimensional figure with one base and triangular lateral faces.

A solid object with one base and triangular sides.

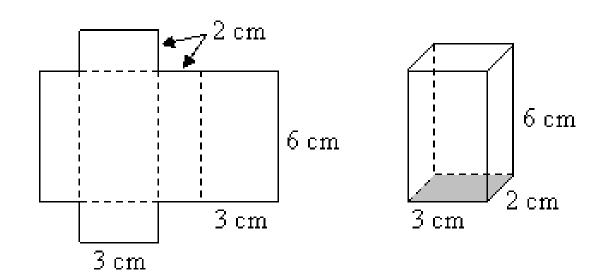
Types of Pyramids





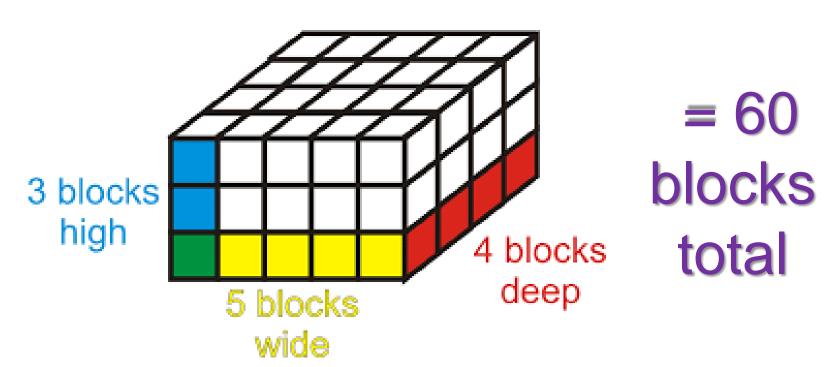
<u>Net</u>— a 2-dimensional representation that can be folded to form a 3-dimensional figure.

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



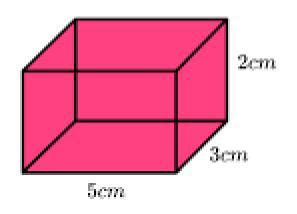
<u>Volume</u>— the amount of space a 3dimensional object occupies measured in cubic units.

The amount of 3-dimensional space something takes up.



<u>Surface Area</u>— the sum of the areas of all the faces, including the bases, of a 3—dimensional figure.

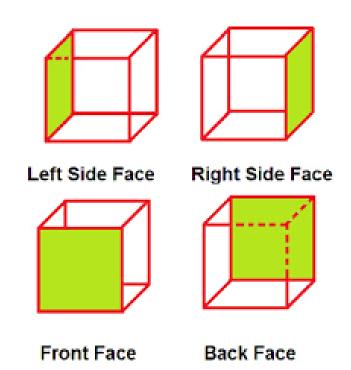
The total area of ALL of the sides of a threedimensional object.



Face	Area
Bottom	5 x 3 = 15
Тор	15
Front	5 x 2 = 10
Back	10
Right side	2 x 3 = 6
Left side	6

<u>Lateral Surface Area</u> — the sum of the areas of all the lateral faces, not the bases, of a 3-dimensional figure.

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



<u>Slant Height</u>— the height of a triangular face of a pyramid.

The distance up the side of a pyramid.

