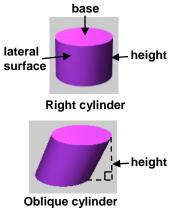
Vocabulary: Surface and Lateral Areas of Prisms and Cylinders

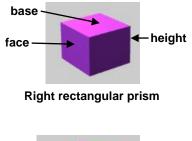
Vocabulary

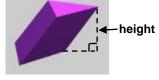
Gizmos

- <u>Cylinder</u> a three-dimensional figure with two congruent, circular bases in parallel planes and a curved lateral surface.
 - The lateral surface connects the two bases.
 - A cylinder that is straight up and down (the bases sit directly above one another) is *right*.
 - A cylinder that is skewed (tilted to one side) is oblique.
- <u>Height (of a cylinder or prism)</u> the perpendicular distance between the two planes in which the bases lie.



- Lateral area the sum of areas of the lateral surfaces of a three-dimensional figure.
- <u>Net</u> a two-dimensional pattern of a three-dimensional figure that can be folded to form the figure.
- <u>Prism</u> a three-dimensional figure with two congruent, polygonal bases in parallel planes and other faces that are parallelograms.
 - The bases of a prism determine its type.
 - For example, the figure to the right with rectangles for bases is a *rectangular prism*, and the one with triangles for bases is a *triangular prism*.
 - A prism that is straight up and down (the bases sit directly above one another) is *right*.
 - A prism that is skewed (tilted to one side) is oblique.
 - A prism with six congruent square faces is a *cube*.
 - The parallelograms that connect the bases are *lateral faces.*





Oblique triangular prism

• <u>Surface area</u> – the sum of areas of all faces and curved surfaces of a three-dimensional figure.

