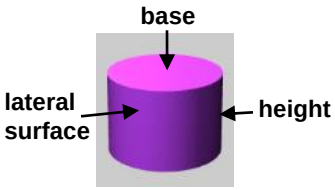
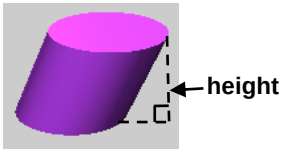
Vocabulary: Prisms and Cylinders

Vocabulary

- Cylinder – 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*.

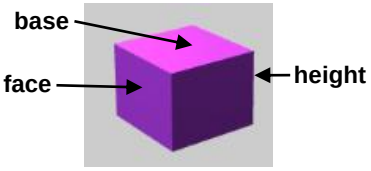


Right cylinder

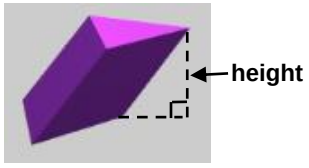


Oblique cylinder

- Height (of a cylinder or prism) – the perpendicular distance between the two planes in which the bases lie.
- Prism – 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*.



Right rectangular prism



Oblique triangular prism

- Volume – the number of cubic units inside a three-dimensional figure.
  - For example, the volume of the solid shown to the right is 18 cubic units.