

Geometry Unit 9 Cheat Sheet by Celia (CCRoses) via cheatography.com/118676/cs/22580/

Vocabulary (cont)

the number of nonoverlapping unit cubes of a given size

that will exactly fill the interior

Theorems & Postulates

area addition the area of a region is equal to the sum of the areas postulate of its nonoverlapping parts

| Formulas | |
|-------------------------------|------------------------------------|
| area of a parallelogram | area = bh |
| area of a triangle | area = 1/2bh |
| area of a trapezoid | area = $[(b1 + b2)h]/2$ |
| area of a rhombus or kite | area = 1/2d1d2 |
| volume of a triangular prism | volume = base * height |
| volume of a rectangular prism | volume = length width height |
| volume of a cube | volume = edge length ³ |
| volume of a cylinder | volume = area of the base * height |

| Vocabulary | |
|------------------|--|
| composite figure | a figure made up of simple shapes, such as triangles, rectangles, trapezoids, and circles |
| face | the flat surfaces of a 3D solid |
| edge | a segment that is the intersection of two faces |
| vertex | a point of intersection of three or more faces |
| prism | formed by two parallel congruent polygonal faces called bases connected by faces that are parallelograms |
| cylinder | formed by two parallel congruent circular bases and a curved surface that connects the bases |
| pyramid | formed by a polygonal base and triangular faces that meet at a common vertex |
| cone | formed by a circular base and a curved surface that connects the base to a vertex |
| cube | a prism with six square faces |
| net | a diagram of the surfaces of a 3D figure that can be folded to form the 3D figure |
| cross section | the intersection of a 3D figure and a plane |



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