## 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 $=b h$ |  |
| area of a triangle | area $=1 / 2 \mathrm{bh}$ |
| area of a trapezoid | area $=[(\mathrm{b} 1+\mathrm{b} 2) \mathrm{h}] / 2$ |
| area of a rhombus or kite | area $=1 / 2 \mathrm{~d} 1 \mathrm{~d} 2$ |
| 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 <br> figure | a figure made up of simple shapes, such as triangles, <br> 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 <br> formed by two parallel congruent polygonal faces called <br> bases connected by faces that are parallelograms |
| prism | formed by two parallel congruent circular bases and a <br> cylinder surface that connects the bases |
| pyramid | formed by a polygonal base and triangular faces that <br> meet a common vertex |
| cone | formed by a circular base and a curved surface that <br> connects the base to a vertex |
| cube prism with six square faces |  |
| net | a diagram of the surfaces of a 3D figure that can be <br> folded to form the 3D figure |
| cross | the intersection of a 3D figure and a plane |
| section |  |

## Vocabulary (cont)

volume the number of nonoverlapping unit cubes of a given size that will exactly fill the interior


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Page 1 of 1 .

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