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| Word | Definition  Name**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | Picture |
| Converse | Formed when the parts of a theorem are reversed. For the Pythagorean Theorem this would be used to test if the triangle is a right triangle. |  |
| Distance formula | The distance *d* between two points with coordinates (x1,y1) and (x2,y2) given by the formula | 1. [https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcQSJ9T-ZhWvp3XD4tD1IOihVwUYpbiqxiVTM-CKS34lmkwudKww](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.freemathhelp.com/distance-formula.html&ei=0t1bVMrjMYWngwTRy4LwDw&bvm=bv.78677474,d.eXY&psig=AFQjCNEA3jlq4gjw1rmJ2TP-pcgfzSVq7w&ust=1415393068263727) |
| Hypotenuse | The side opposite the right angle in a right triangle. It is the longest side of the triangle. |  |
| Legs | The two sides of a right triangle that form the right angle. They are the two shortest sides of the triangle. |  |
| Pythagorean Theorem | In a right triangle, the square of the length of the hypotenuse *c* is equal to the sum of the sqares of the lengths of the legs *a* and *b*. |  |
| Theorem | A statement or conjecture that can be proven. |  |
| Composite solids | An object made up of more than one type of solid. |  |
| Cones | A three-dimensional figure with one circular base connected by a curved surface to a single vertex. |  |
| Cylinder | A three-dimensional figure with two parallel congruent circular bases connected by a curved surface. |  |
| Sphere | The set of all points in space that are a given distance from a given point called the center. |  |
| Hemisphere | One of two congruent halves of a sphere |  |
| Altitude/height | Vertical distance from the top of an object or figure to its base. The distance is measured perpendicular to the base. |  |
| diagonal | A line segment whose endpoints are vertices that are neither adjacent nor on the same face |  |
| Right triangle | A triangle with one right angle. | [http://upload.wikimedia.org/wikipedia/commons/thumb/7/72/Triangle.Right.svg/220px-Triangle.Right.svg.png](http://en.wiktionary.org/wiki/File:Triangle.Right.svg) |
| Diameter | The distance across a circle through the center |  |
| Radius | The distance from the center of a circle to any point on the circle. |  |
| Pi | The ratio of the circumference of a circle to its diameter. Represented by the Greek letter and is always 3.14159…. |  |
| Volume | The measure of the space occupied by a solid. The units are cubed. | Space a 3-d object takes up |
| Circumference | The distance around a circle. |  |
| Area | The measure of the surface enclosed by the figure. The units are squared. | Space a 2-d object takes up |
| Vertices | The point where three or more faces meet or the point at the tip of a cone. The singular form of the word is vertex. |  |
| Perimeter | The distance around any polygon such as a triangle or rectangle. |  |

Formulas

Volume:

Cone:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cylinder: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hemisphere:\_\_\_\_\_\_\_ \_\_\_

Pythagorean Theorem:\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_