Formula’s and Properties Of 2D and 3D Shapes.! :]

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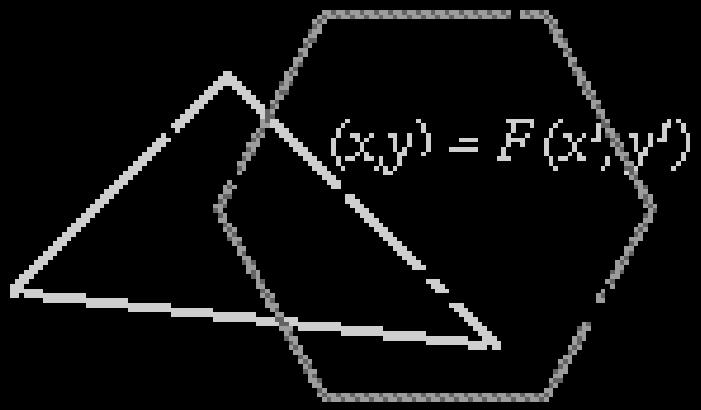
$$x^2+y^2+2dx+2ey+f=0$$

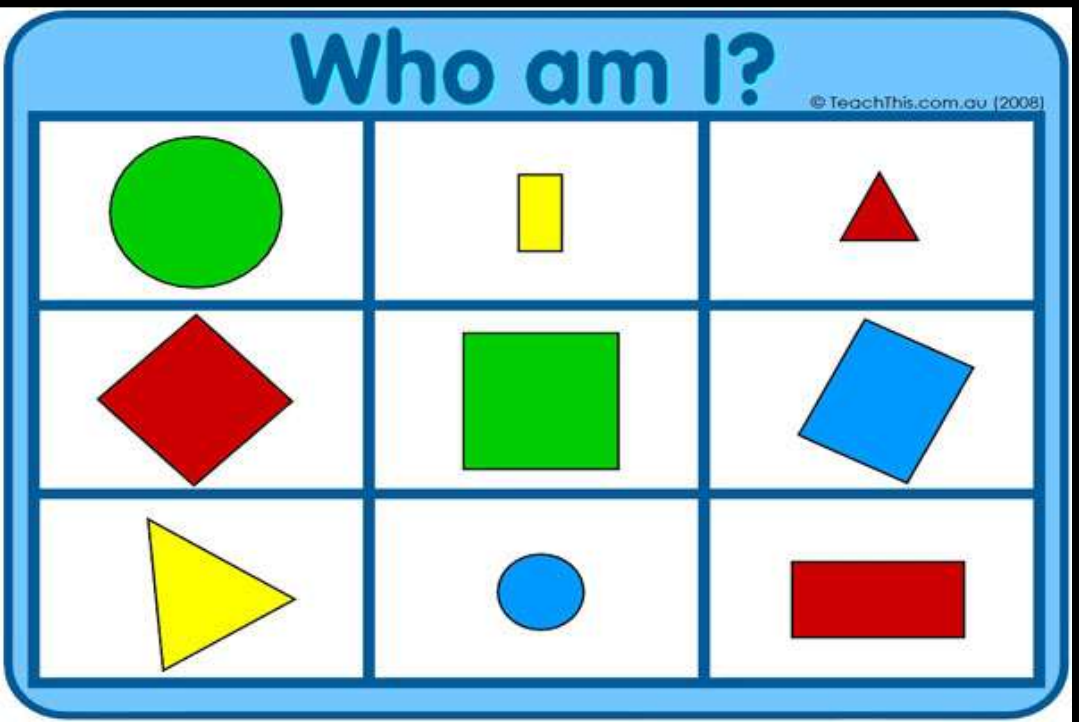


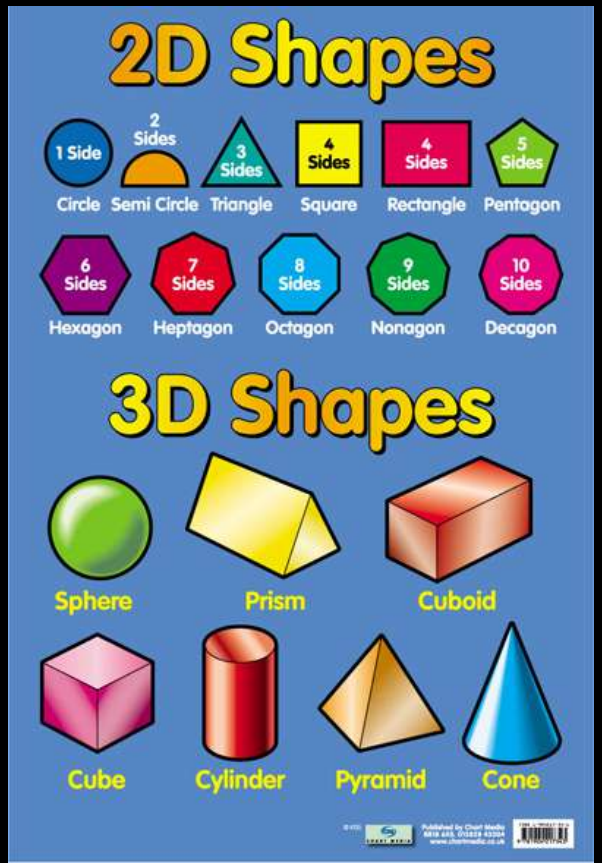
[: Definitions :]

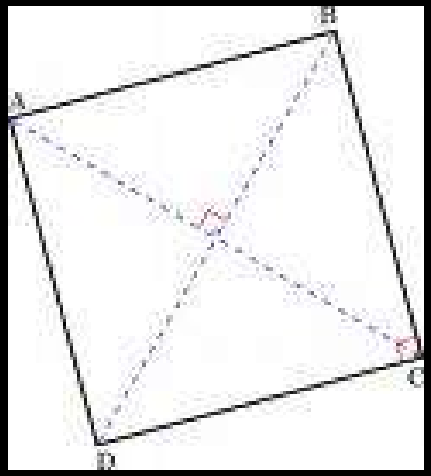
- 2D- Having the dimensions of height and weight only.
- 3D-Having, or seeming to have, the dimension of the depth as well as the height and weight.
- Pi- is approximately 3.14, it is actually 22/7
- Radius-A straight line extending from the center of a circle or a sphere to the circumference or surface.
- Exponent- a symbol or number placed above and after another symbol or number to denote the power to which the latter is to be raised: *The exponents of the quantities 5n, 2m, y*4*, and* 5j *are, respectively, n, m, 4, and 5.*

!2D FIGURES!

- Beyond this point will be just 2D shapes. You will review the Formulas of these 2D shapes and figures. ☺





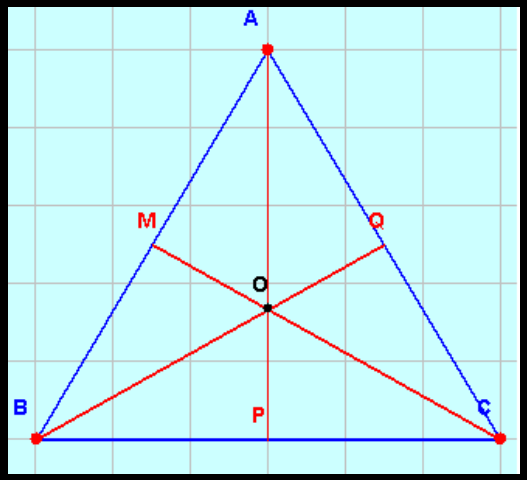


!SQUARE!

Formula: L x W

Properties: 4 sides…all 90 degree angles, closed figure, 2 sets of parallel lines.

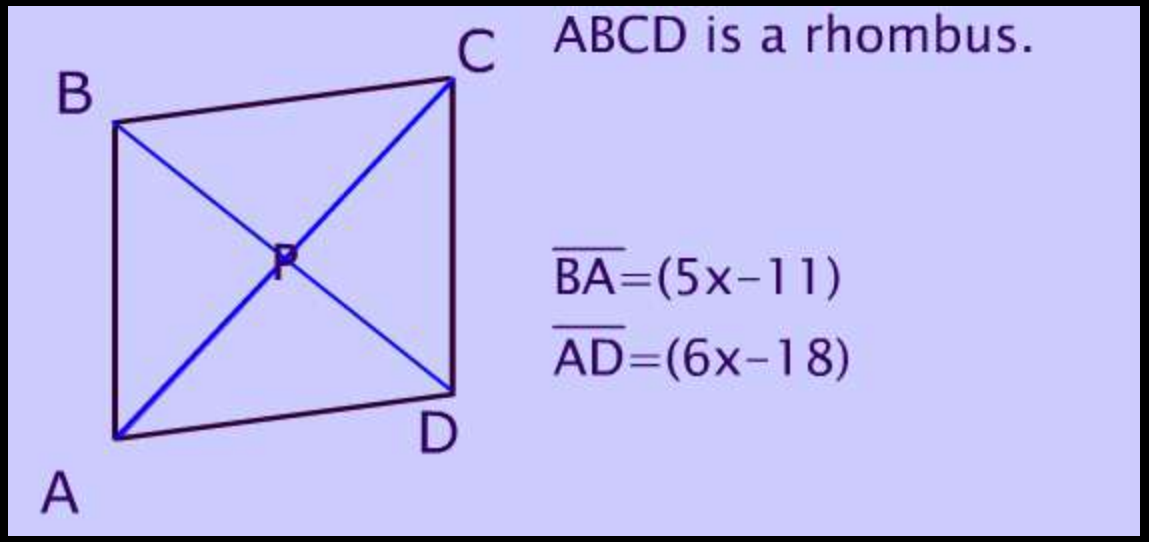
☺ Triangle ☺



- Formula: ½ x bh
- Properties: 3 sides, closed figure.

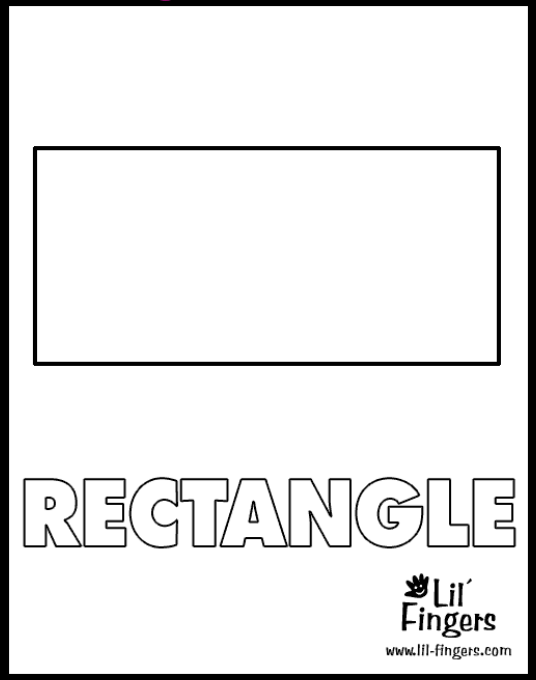
!Rhombus!

- Formula: b x h
- Properties: 2 set of parallel lines, polygon, 4 sides of equal measure, closed figure.



(Rectangle)

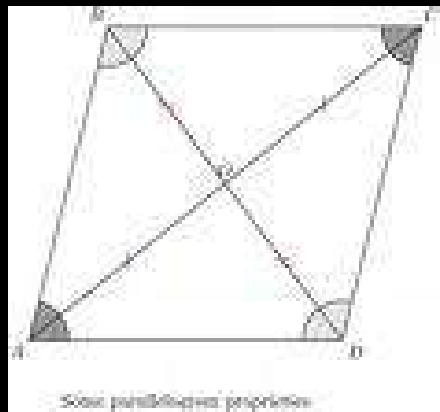
- Formula: L x W
- Properties: closed figure, 4 sides, 2 sets of parallel lines, 4 right angles.



♥ Parallelogram ♥

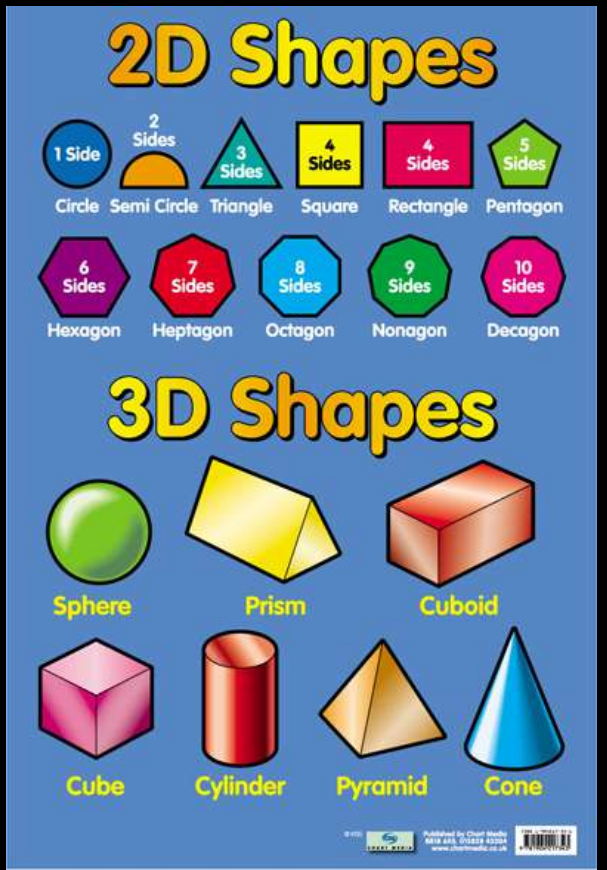
- Formula: (bh)

Properties: Closed figure, 4 sides, 2 sets of parallel lines.



!3D FIGURES!

- Here are the Volume Formulas of 3D shapes. ☺



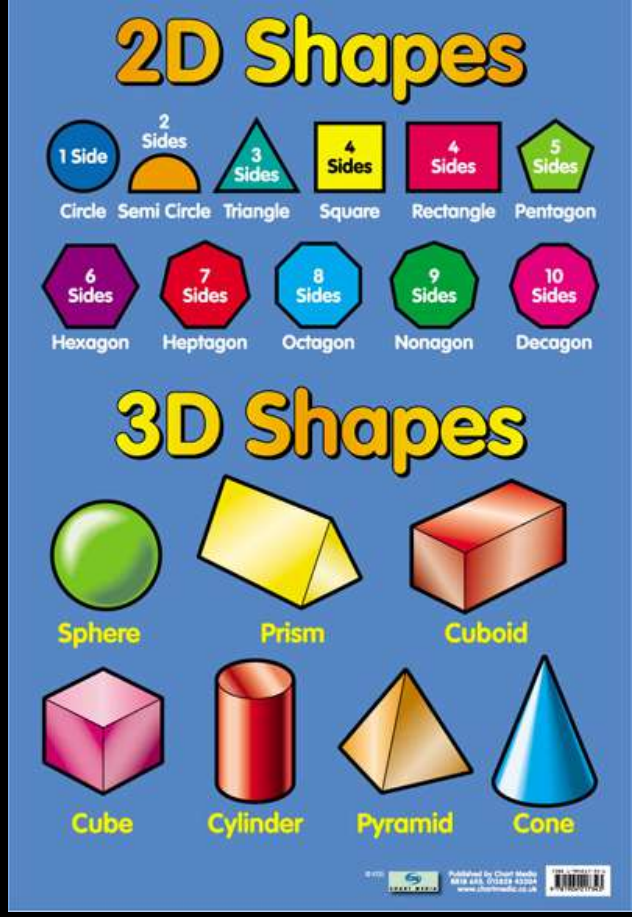
☺ CUBE ☺

- Formula: L x W x H

- Properties: 6 congruent faces, 12 vertices, the sides are at right angles to the base.

♥Rectangular Prism ♥

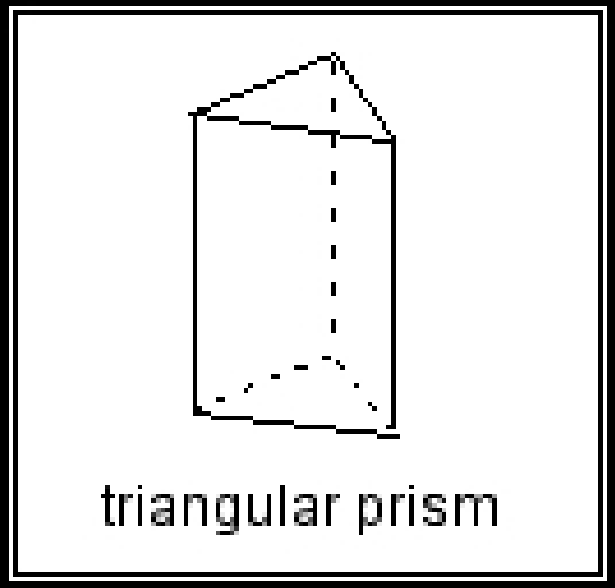
- Formula: L x W x H



- Properties:6 faces, 8 vertices, all of the sides are at right angles to their bases.

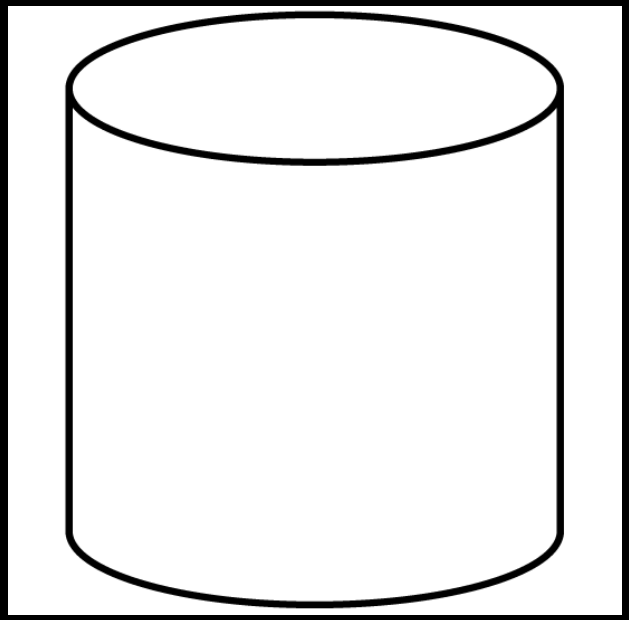
Triangular Prism☺

- The area of the base (b x h)/2 – multiplied by the height of the container (H).
- [(bxh)/2] x H



!Cylinder!

- Formula: $\pi r^2 H$
- Properties: 2 circle faces.



♥ ☺ !!!Credits!!! ☺ ♥

- http://upload.wikimedia.org/wikipedia/en/b/b7/Isosceles_trapezoid.jpg
- http://www.onemathematicalcat.org/Math/Geometry_obj/graphics/area_of_trapezoid.bmp
- http://www.education.vic.gov.au/images/content/studentlearning/mathscontinuum/CircleArea.GIF
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