Notes on Geometry

Area

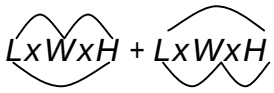
Square = s^2 .....*side x side*
Rectangle = lw.....*length x width*
Triangle = bh/2.....*base x height divided by 2*
Circle = Πr^2 .....*(~3.14) x radius x radius*
Parallelogram = bh.....*basexheight*
Trapezoid = (b1+b2)/2 x h.....*base 1 + base 2 and then divide by 2 to find the average of the two bases. Then multiply by the height.*

Perimeter

Square = 4s.....*4 x side*
Rectangle = 2(l+w).....*2 x (length + width) Add length and width first then x 2*
Triangle = sum of all three sides
Circle (circumference) = dΠ.....*diameter x (~3.14)*
2rΠ.....*2 x radius x (3.14)*
Parallelogram = 2(l+s) *2x(length + side) Add length and side first then x2*
Trapezoid = sum of all four sides

Surface Area

Cube = $6s^2$ .....*6 x side x side*
Rectangular Prism (box) = 2(lw + wh + lh)
.....*2 x (length x width + width x height + length x height)*
.....*kiss-butt method*



- *Multiply pairs*
- *Add products*
- *Double sum*

Cylinder = $2\Pi r^2 + 2\Pi rh$..... (2 x the area of a circle)+(circumference x height)

Volume

Cube = s^3.....*side x side x side*
Rectangular Prism (box) = l w h.....length x width x height
Cylinder = $\Pi r^2 h$.....Area of the circle x the height
Sphere = 2/3 $\Pi r^2 h$.....2/3 x Area of the circle x the height
Cone = 1/3 $\Pi r^2 h$.....1/3 x Area of the circle x the height