HANDY CALCULATIONS - VOLUME SOLIDS AND SPREADING RATE

WHAT'S THE AREA OF THAT SHAPE?
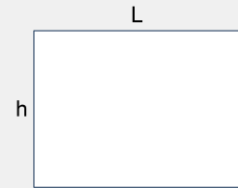
SQUARE

Area = Length (L) x Width (h)

$\quad\quad = L^2$
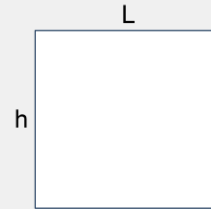
RECTANGLE

Area = Length (L) x Width (h)

TRIANGLE

Area = 0.5 x base (b) x Perpendicular Height (h)
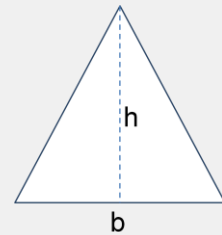
CIRCLE (TANK BASE OR ROOF)

Area = π x Radius (r) x Radius (r)

$\quad\quad = \pi (r)^2$
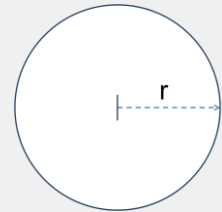
CYLINDER (TANK WALLS, PIPE, ETC)

Area = π x Diameter (d) x Height (h)

$\quad\quad = \pi dh$
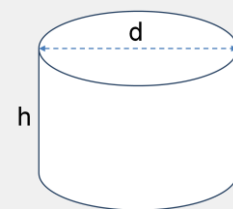
CONE (HOPPER WALLS, ETC)

Base (Circle) Area = $\pi (r)^2$

Curved surface Area = πrs

Total = $\pi (r)^2 + \pi rs$

SPHERE

Area = $4\pi (r)^2$