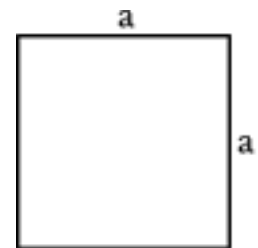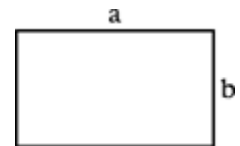# METALSAWZ INC.

CALCULATE AREA

Square

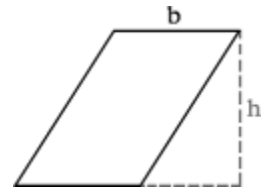$A = a^2$, in which a is one of the sides.

Rectangle

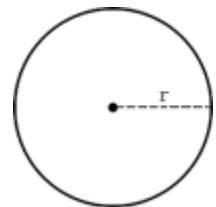$A = ab$, in which a is the base and b is the length.

Parallelogram

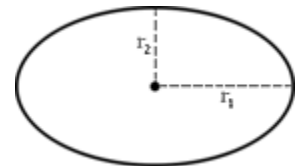$A = bh$, in which b is the base and h is the height

Circle

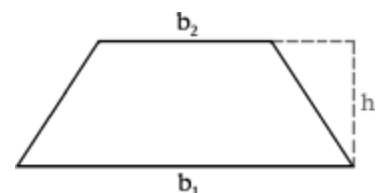$A = pr^2$, in which p is 3.1416 and r is the radius.

Ellipse

$A = pr_1r_2$, in which p is 3.1416, r_1 is the longer radius, and r_2 is the shorter radius

Trapezoid

$A = (h[b_1 + b_2])/2$, in which h is the height, b_1 is the longer parallel side, and b_2 is the shorter parallel side

Triangle

Given base and height: A = (1/2)bh, in which b is the base and h is the height

Given side, angle, side (SAS): (1/2) ab x sin?, in which *a* is one side, *b* is another side, and ? is the known angle

Given three sides:
$$\sqrt{(s[s-a][s-b][s-c])}$$ **when s = (a + b + c)/2 *(Heron's formula)*, in which *a, b,* and *c* represent the three sides**