

Topic	Customary/Metric Conversion Facts	
Length	1 in. = 2.540 cm 1 ft \approx 0.3048 m 1 yd \approx 0.9144 m 1 mi \approx 1.6093 km	1 cm \approx 0.3937 in. 1 m \approx 3.28 ft 1 m \approx 1.094 yd 1 km \approx 0.6214 mi
Weight	1 oz \approx 28.3 g 1 lb \approx 0.4536 kg	1 g \approx 0.0353 oz 1 kg \approx 2.205 lb
Capacity	1 qt \approx 0.9464 L 1 gal \approx 3.785 L 1 fl oz \approx 29.574 mL	1 L \approx 1.057 qt 1 L \approx 0.2642 gal 1 mL \approx 0.03381 fl oz
Area	$1 \text{ in}^2 \approx 6.4516 \text{ cm}^2$ $1 \text{ ft}^2 \approx 929 \text{ cm}^2$ $1 \text{ yd}^2 \approx 8,361 \text{ cm}^2$ 1 ha (hectare) = $1 \text{ hm}^2 \approx 2.47$ acres $1 \text{ mi}^2 \approx 2.59 \text{ km}^2$	
Volume	$1 \text{ in}^3 \approx 16.3871 \text{ cm}^3$ $1 \text{ ft}^3 \approx 28,317 \text{ cm}^3$ $1 \text{ yd}^3 \approx 0.7646 \text{ m}^3$ $35.3 \text{ ft}^3 \approx 1 \text{ m}^3$	
Temperature	$F = 1.8C + 32$ $K = C + 273.15$	$C = \frac{F - 32}{1.8}$ $C = K - 273.15$

Area of a regular polygon $A = \frac{1}{2} \times s \times a \times n$ or $\frac{1}{2} \times a \times p$, where a = the length of the apothem, s = the length of a side, p = the perimeter, and n = the number of sides.

Equation of a circle $(x - h)^2 + (y - k)^2 = r^2$, where the Center is (h, k) and the radius is r.

Distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$, where one point is given by the ordered pair (x_1, y_1) , and the other point is (x_2, y_2) .

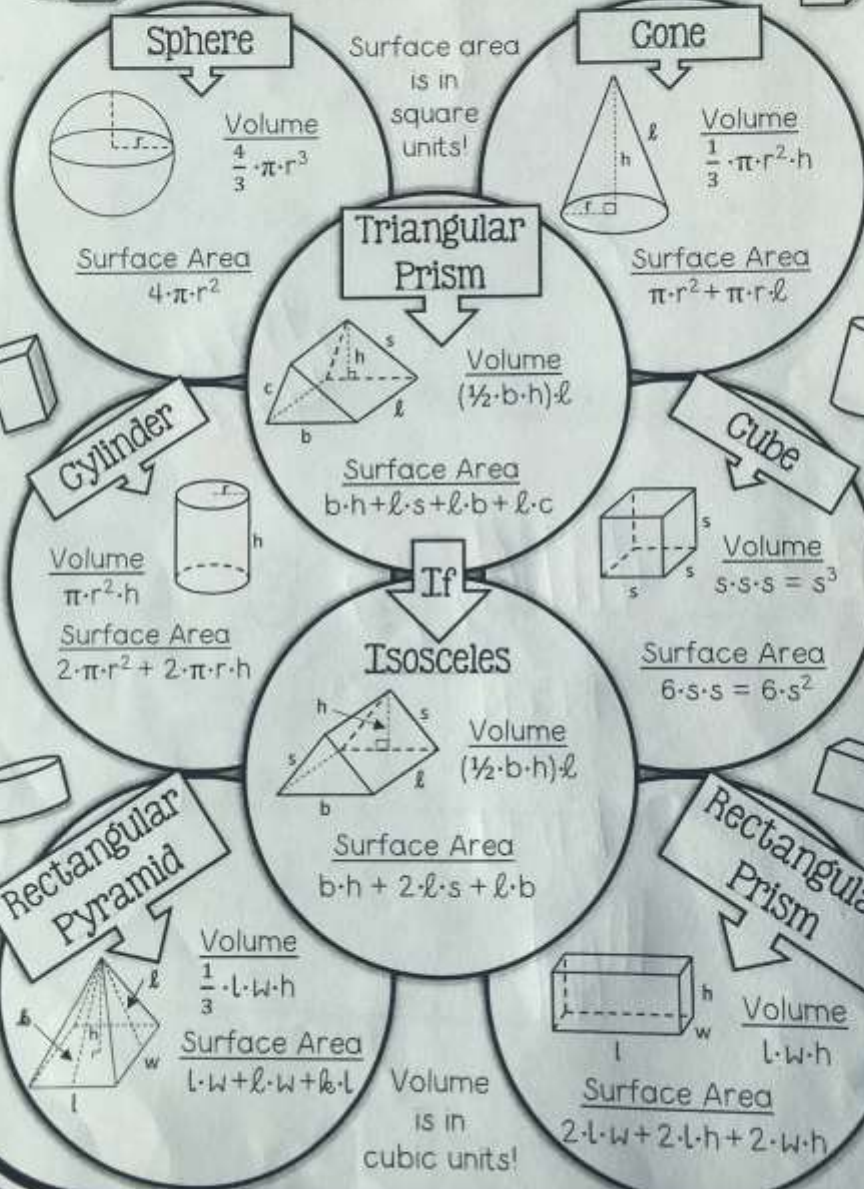
Hero's Formula $A = \sqrt{s(s - a)(s - b)(s - c)}$, where $s = \frac{1}{2}(a + b + c)$ for the area of a triangle with sides a, b and c.

* Area of kite
 $A = \frac{1}{2} \cdot d \cdot d'$ (diagonal * the other)

* Area of trapezoid
 $\frac{1}{2} h (b_1 + b_2)$

Volume & Surface Area

Formula Cheat Sheet



* SA of right square pyramid
 $\frac{1}{2} pl + s^2$
 Volume of = $\frac{1}{3} Bh$

