

# Conversion Factors

## LIQUID MEASURE AND WEIGHT

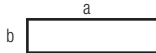
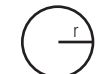

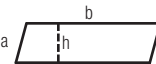
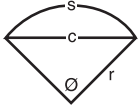

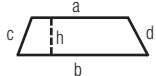
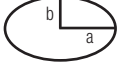

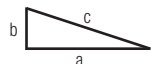
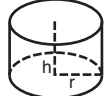
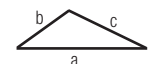
TO OBTAIN MULTIPLY BY	U.S. GALLON	IMPERIAL GALLON	U.S. POUND WATER	U.S. CUBIC FOOT	U.S. CUBIC INCH	LITER	CUBIC METER
U.S. GALLON	1	0.8327	8.337	0.13368	231.0	3.785	0.003785
IMPERIAL GALLON	1.2009	1	10.0	0.16054	277.78	4.546	0.004546
U.S. POUND WATER	0.11995	0.1	1	0.016035	27.708	0.45404	0.000454
U.S. CUBIC FOOT	7.4805	6.2288	62.365	1	1728.0	28.316	0.028314
U.S. CUBIC INCH	0.004329	0.00360	0.3609	0.000578	1	0.016387	0.0000164
LITER	0.26418	0.21997	2.202	0.035315	61.025	1	0.0010
CUBIC METER	264.2	219.99	2202.6	35.3183	61030.0	999.97	1

## PRESSURE AND HEAD

TO OBTAIN MULTIPLY BY	LB / SQ IN	LB / SQ FT	ATMO-SPHERE	KG / SQ CM	IN WATER	FT WATER	IN MERCURY	MM MERCURY	BAR
LB / SQ IN	1	144.0	0.068046	0.070307	27.7276	2.3106	2.0360	51.7150	0.06895
LB / SQ FT	0.006945	1	0.000473	0.000488	0.1926	0.01605	0.014139	0.35913	0.000479
ATMOSPHERE	14.696	2116.22	1	1.0332	407.484	33.9570	29.921	760.0	1.01325
KG / SQ CM	14.2233	2048.16	0.96784	1	394.27	32.864	28.959	735.558	0.9807
IN WATER	0.03607	5.194	0.002454	0.00254	1	0.08333	0.0734	1.865	0.00249
FT WATER	0.43278	62.3205	0.029449	0.03043	12.0	1	0.8811	22.381	0.02984
IN MERCURY	0.49115	70.726	0.033421	0.03453	13.617	1.1349	1	25.40	0.03386
MM MERCURY	0.019337	2.7845	0.0013158	0.0013595	0.5361	0.04468	0.03937	1	0.001333
BAR	14.5038	2088.55	0.98692	1.0197	402.1	33.51	29.53	750.0	1

## PRESSURE AND HEAD

A = Area, S = Surface Area of Solid, V = Volume, C = Circumference, R = Radius of Circumscribed Circle

 <p><b>Rectangle</b>  <math>A = ab</math>  <math>C = 2(a + b)</math></p>	 <p><b>Circle</b>  <math>A = 3.142r^2</math>  <math>C = 6.283r</math></p>	 <p><b>Cone</b>  <math>V = 1.047r^2h</math>  <math>S = 3.142r\sqrt{r^2 + h^2}</math></p>
 <p><b>Parallelogram</b>  <math>A = bh</math>  <math>C = 2(a + b)</math></p>	 <p><b>Sector of Circle</b>  <math>S = r\theta</math>  <math>C = 2r\sin(\theta/2)</math>  <math>A(\text{sector}) = 0.5rs</math>  <math>A(\text{segment}) = 0.5r^2(\theta - \sin\theta)</math></p>	 <p><b>Sphere</b>  <math>A = 4.189r^2</math>  <math>S = 12.57r^2</math></p>
 <p><b>Trapezoid</b>  <math>A = 0.5(a + b)h</math>  <math>C = a + b + c + d</math></p>	 <p><b>Ellipse</b>  <math>A = 3.142ab</math>  <math>C = 6.284\sqrt{[a(a+b)b]/2}</math></p>	 <p><b>Frustrum of Right Circular Cone</b>  <math>V = 1.047h[a(a + b) + (b + a)b]</math>  <math>S = 3.142(a + b)\sqrt{[a - b]^2 + h^2}</math></p>
 <p><b>Right Triangle</b>  <math>A = 0.5ab</math>  <math>R = 0.5c</math></p>	 <p><b>Cylinder</b>  <math>C = 3.142r^2h</math>  <math>S = 6.284rh</math></p>	
 <p><b>General Triangle</b>  <math>A = \sqrt{s(s-a)(s-b)(s-c)}</math>  <math>R = abc/(0.25A)</math></p>		