

Miscellaneous and Useful Formulas:

<p>To find the circumference of a circle: Multiply the radius by 6.2832, or Multiply the diameter by 3.1416, or Multiply the square root of the area by 3.3449</p>	<p>To find the volume of a parallelogram: Multiply the area of cross section times the length</p>
<p>To find the radius of a circle: Multiply the diameter by .5, or Multiply the circumference by .15913, or Multiply the square root of the area by .56419</p>	<p>To find the area of a cylinder: Multiply the length times the circumference of the body plus the area of both ends.</p>
<p>To find the diameter of a circle: Multiply the radius by 2, or Multiply the circumference by .31831, or Multiply the square root of the area by 1.1284</p>	<p>To find the volume of a cylinder: Multiply the area of the base by the perpendicular height</p>
<p>To find the area of a circle: Multiply the square of the radius by 3.1416, or Multiply the square of the diameter by .7854, or Multiply the square of the circumference by .07958</p>	<p>To find the area of a sphere: Multiply the square of the diameter by 3.1416, or Multiply the diameter times the circumference</p>
<p>To find the area of a hexagon: Multiply the square of the distance across by .86603, or Multiply the area of the inscribed circle by 1.1027</p>	<p>To find the volume of a sphere: Multiply the cube of the diameter by .5236</p>
<p>To find the area of an octagon: Multiply the square of the distance across by .82843, or Multiply the area of the inscribed circle by 1.0348</p>	<p>To estimate the weight of a round steel bar: Multiply the diameter by 4, square the product, and divide by 6. The result is the approximate weight in pounds per foot of length.</p>
<p>To find the area of a rectangle: Multiply the length by the width</p>	<p>To estimate the weight of a square steel bar: Square the size, add a zero and divide by 3, equals approximate weight in pounds per foot of length.</p>
<p>To find the area of a triangle: Multiply the base by one-half the perpendicular height</p>	<p>To estimate the weight of a flat steel bar: Multiply the width by the thickness, add a zero and divide by 3. The result is the approximate weight in pounds per foot of length.</p>
<p>To find the side of an inscribed square: Multiply the diameter by .7071, or Multiply the circumference by .2251</p>	<p>To calculate sheet weight Sheet Weight = Width x Length x Decimal thickness</p>

<p>To find the side of an equal square: Multiply the diameter by .8862</p>	<p>To convert Brinell hardness to tensile strength: Divide the Brinell Hardness number by two to get the approximate tensile strength in thousands of pounds per square inch.</p> <p>Example: Assume Brinell Hardness of 248. $248 \div 2 = 124,000$ p.s.i. (approx. tensile strength.).</p> <p>Conversely, drop the last three figures of the tensile strength and multiplying by two to get the approximate Brinell Hardness number.</p> <p>Example: Assume tensile strength of 122,000 p.s.i. $122 \times 2 = 244$ (approximate Brinell Hardness).</p>
<p>To find the diameter of the circumscribing circle of a square: Multiply a side by 1.4142</p>	
<p>To find the circumference of the circumscribing circle of a square: Multiply a side by 4.443</p>	
<p>To find the cubic contents of a cone: Multiply the area of the base by one-third the altitude</p>	
<p>To find the area of an ellipse: Multiply the product of its axes by .7854</p>	<p>To find the capacity of a tank in gallons: <i>All measurements must be reduced to inches</i> For cylindrical tanks, multiply the length by the square of the diameter by .0034. For rectangular tanks, multiply the length by the width by the depth and divide by 231.</p>
<p>To find the area of a parallelogram: Multiply the base times the perpendicular height</p>	