

Compliments of  
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**Rules for Computing Circumference, Areas and Volume**

Circumference of Circle:  $3.1416 \times \text{diameter}$ .  
 Area of Circle:  $0.7854 \times \text{diameter} \times \text{diameter}$ .  
 Area of Rectangle:  $\text{length} \times \text{width}$ .  
 Capacity of Rectangular Bin:  $\text{length} \times \text{width} \times \text{depth}$

Volume of Cylinder:  $0.7854 \times \text{diameter} \times \text{diameter} \times \text{height}$   
 Approximate Capacity of Container Having Sloping Sides:  $\text{Vertical height} \times \text{one-half the sum of top area and bottom area}$ .

**Linear Measurement**

1 inch = 2.54 centimeters  
 1 foot = 12 inches = 30.48 centimeters  
 1 yard = 3 feet = 0.91 meters  
 1 rod = 5.5 yards  
           16.5 feet  
  
           320 rods  
 1 statute mile = 1760 yards = 1609.34 meters  
                   5280 feet  
  
 1 furlong = 1/8 statute mile  
  
 1 international nautical mile = 1852 meters  
   = 6076.11549 feet

**Surveying Measures**

7.92 inches = 1 link  
  
 25 links or  
 16.5 feet = 1 rod, perch or pole  
  
 100 links or  
 4 rods = 66 feet = 1 chain  
  
 80 chains or  
 320 rods/poles = 1 mile  
 5280 feet

**Area Measurement**

1 square foot = 144 square inches  
 1 square yard = 9 square feet  
 1 square rod = 30.25 square yards  
  
           160 square rods  
 1 acre = 4840 square yards = 0.40 hectare  
                   43560 square feet  
  
 1 square mile = 640 acres = 259 hectares  
 1 section of land = 1 square mile

**Cubic Measurement**

1 cubic foot = 1728 cubic inches = 28.32 cubic  
   decimeters  
 1 cubic yard = 27 cubic feet = 0.76 cubic  
   meters

**Square Measurement**

208.708 x 208.708 feet = 1 acre  
  
 43,560 square feet = 1 acre  
  
 16 square rods or poles = 1 square chain  
  
 10 square chains = 1 acre  
  
 160 square rods or poles = 1 acre  
  
 640 acres (one section) = 1 square mile  
  
 36 square miles = 1 township