BASIC MATHEMATICS
CONVERSION TABLE

π (pi) = 3.14

1 cu. ft. = 7.48 gallons

1 gallon water = 8.34 lbs.

1 gallon = 231 cu. in.

8.34 lbs. = one part per million by weight of one million gallons of water

1 psi = 2.31 ft.

1 mi = 5,280 ft.

Diameter = The distance across a circle through its center

Radius = The distance from the center of a circle to the edge (½ the diameter)

MG = Million gallons

one day = 1440 minutes

1 grain per gallon (gpg) = 17.1 mg/l

FORMULAE

Area of a circle = πr^2

Volume of a rectangle = Length x Width x Height

Volume of a cylinder = πr^2 x Height

Volume of a pipe = πr^2 x Length

Volume of a rectangular tank = Length x Width x Height

(MG) (mg/l) (8.34) = lbs

lbs of compound = lbs pure chlorine divided by % chlorine

Dosage in mg/l = $\dfrac{\text{lbs of chemical}}{\text{MGD x 8.34}}$

Dosage = Demand + Residual