Formula for finding square feet needed for circle larger than 16 feet

$$A - 209 = x$$

$$C = x \ / \ 102$$

A = area of circle (area = 3.14 x (r x r))
R = radius of circle or ½ of the diameter
C = number of cubes of Washington 10's needed for circle larger than 16 feet

Example

30' diameter circle
Radius is 15'
Area = 3.14 x (15x15) = 706.5
706.5 – 209 = 497.5
C = 497.5 / 102 = 4.88

Or 498 square feet of Washington 10's (4 full cubes and 90 sf)
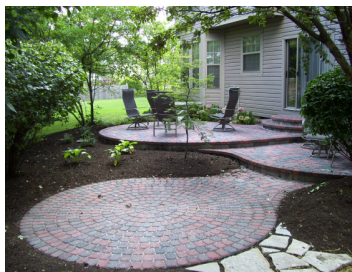
Other Helpful Conversions

Square Yards x 9 = Square Feet

Circumference of Circle x .3183 = Diameter of Circle

Diameter of Circle x 3.14 = Circumference of Circle

Diameter of Circle Squared x .7854 = Area of Circle

Radius of Circle Squared x 3.14 = Area of Circle

Calculating Your Materials

Crushed Limestone Base (Pavers)

1 ton = 200 square feet at 1" deep

Take square footage of area / 200 = (   ) x inches deep

Example: 1000 square feet base 10" deep
1000/200 = 5 5x10" deep = 50 tons

Sand For Pavers

Same as above, maximum depth of sand should be ¾" to 1" deep