

$$\text{Volume} = \frac{\text{length} \times \text{width} \times \text{depth}}{27} \times 1.5$$

Note: all dimensions must be in the same units

For example:

$$\text{Patio} = 20' \times 20'$$

$$\text{Depth} = 4''$$

$$\text{Volume} = 20' \times 20' \times 4/12 \text{ (convert inches to feet)} = 133.33 \text{ cu. Ft.}$$

$$1 \text{ cu. Yard} = 27 \text{ cu. Ft}$$

$$133.33 \text{ cu. Ft.} \times \frac{1 \text{ cu. Yd}}{27 \text{ cu ft.}} = 4.93 \text{ (say 5 cu. Yds.)}$$

To convert to tons (1 cu. Yd is approximately 1.5 tons)

$$5 \text{ cu. Yds.} \times \frac{1.5 \text{ tons}}{1 \text{ cu. Yd.}} = 7.5 \text{ tons}$$