Computing total yard(s) of concrete for common geometric shapes:

Trapezoid

Use work sheet in conjunction with Math Cheat Sheet:

First convert all measurements to feet.

Converting inches into feet:

4" ÷ 12" = .33', 6" ÷ 12" = .50', 8" ÷ 12" = .66' etc.

The Formula Used:

H x (B + b) ÷ 2 x L = Total Yard(s) of concrete.

B & b are the two parallel sides of a trapezoid.

Length of B in feet. = B _____

Length of b in feet. = b _____

B + b ÷ 2 (in feet) = Average

B _____ + b _____ ÷ _____2_____= Av _____

Av x H (in feet) = Area (square feet)

Height of Trapezoid in feet = H _____

Av _____ x H _____ = Area _____

Area x Length (in feet) = Cubic Feet.

A _____ x L _____ = CF _____

Cubic Feet ÷ 27 (cubic feet per one yard) = Total Yard(s) of concrete.

CF _____÷_____27_____ = TY _____

This is the exact amount of concrete.

The amount of concrete ordered must reflect the variations in grade and the needs for edges and floating.