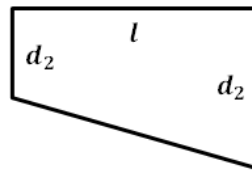
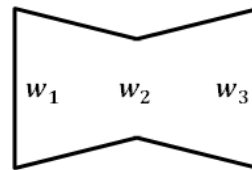


Swimming Pool Volume in Gallons (Freeform Pool)

Cutaway Side View



Top View



$$Volume = avg\ depth \times l \times avg\ width \times 7.48$$

$$avg\ depth = \frac{d_1 + d_2}{2}$$

d = depth of the pool

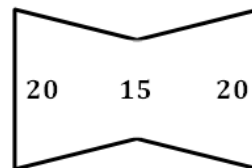
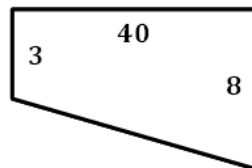
l = length of the pool

$$avg\ width = \frac{w_1 + w_2 + w_3 + \dots w_n}{n}$$

w = width of the pool

n = number of measurements

Example:



$$V = avg\ depth \times l \times avg\ width \times 7.48$$

$$= \frac{d_1 + d_2}{2} \times 40 \times \frac{w_1 + w_2 + w_3}{3} \times 7.48$$

$$= \frac{3 + 8}{2} \times 40 \times \frac{20 + 15 + 20}{3} \times 7.48$$

$$= \frac{11}{2} \times 40 \times \frac{55}{3} \times 7.48$$

$$= 5.5 \times 40 \times 18.3 \times 7.48$$

$$= 30,114\ gallons$$