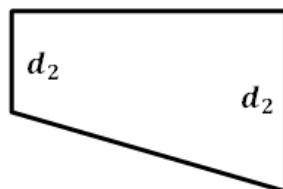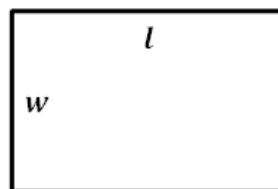Swimming Pool Volume in Gallons (Rectangular Pool)

Cutaway Side View   Top View

d_2

d_2

l

w

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

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

$d = depth\ of\ the\ pool$
$l = length\ of\ the\ pool$
$w = width\ of\ the\ pool$

Example:

3

8

40

20
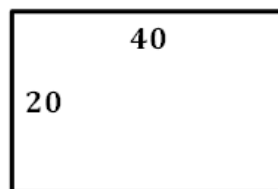
$$V = avg\ depth \times l \times w \times 7.48$$

$$= \frac{d_1 + d_2}{2} \times 40 \times 20 \times 7.48$$

$$= \frac{3 + 8}{2} \times 800 \times 7.48$$

$$= \frac{11}{2} \times 5984$$

$$= 5.5 \times 5984$$

$$= 32,912\ gallons$$