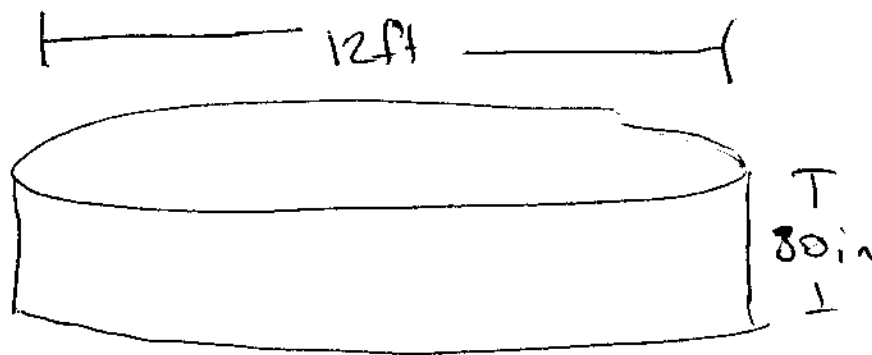


In spite of the shape of the frame (dodecagon) the pool looks like a cylinder.



$$\begin{aligned}\text{Volume} &= \pi r^2 h \\ &= \pi (6.12)^2 \cdot 80 \text{ in}^3 \\ &\approx 488,580 \text{ in}^3\end{aligned}$$

A 1-liter bottle has  $61 \text{ in}^3$  (Google) so  
a 2-liter bottle has  $122 \text{ in}^3$ .

$$\begin{aligned}\text{Total bottles needed} &= \frac{\text{Volume pool}}{\text{Volume bottle}} \\ &\approx \boxed{4,000 \text{ bottles}}\end{aligned}$$