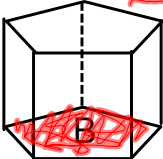
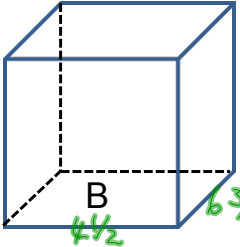


Geometry puzzles 13.15 & 13.16

Volume
 Prism - 2 bases, lateral sides
 $V = Bh$
 B = Area of a base

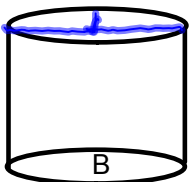


$B = 26 \text{ in}^2$ $V = 26(10)$
 $h = 10 \text{ in}$ $V = 260 \text{ in}^3$



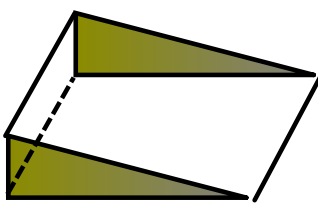
$h = 12$
 $V = Bh$
 $V = L \cdot W \cdot h$
 $V = (6 \frac{3}{4})(4 \frac{1}{2})(12)$
 $V = 364 \frac{1}{2}$

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$d = 16$ $r = \frac{1}{2}d = 8$ $V = B \cdot h$
 $V = \pi r^2 \cdot h$
 $V = \pi (8)^2 \cdot 15$
 $= \pi \cdot 64 \cdot 15$
 $= 975\pi = 3014.4$

$A_{\text{circle}} = \pi r^2$



$B = 10$ $h = 14$

$V = Bh = 10 \cdot 14 = 140$
 ↑
 Area of Base!