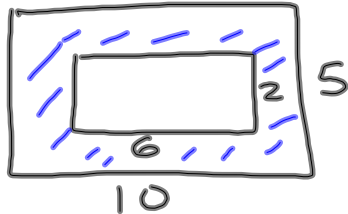
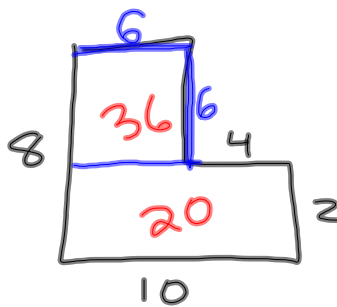


3-28-14
5th Geometry

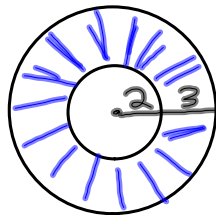
Area of Irregular Shapes



$$\begin{array}{r} \text{Area of whole} - \text{hole} \\ 50 - 12 \\ \hline 38 \text{ cm}^2 \end{array}$$



$$\begin{array}{r} 36 \\ + 20 \\ \hline 56 \text{ cm}^2 \end{array}$$



$$\pi r^2$$

Whole - hole

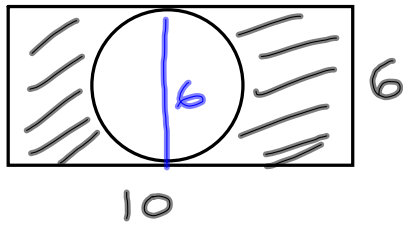
$$\pi r^2$$

$$\pi \cdot 5^2 - \pi \cdot 2^2$$

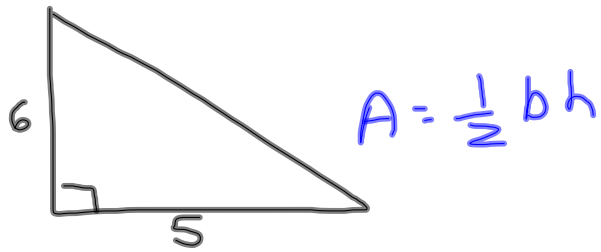
$$25\pi - 4\pi$$

$$21\pi$$

$$\approx 66.0 \text{ cm}^2$$

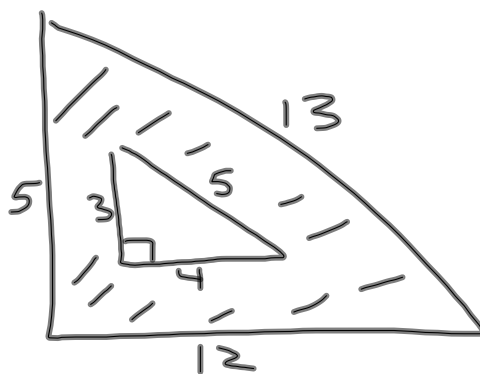


$$\begin{aligned}
 &60 - \text{circle} \\
 &60 - \pi \cdot 3^2 \\
 &60 - 9\pi \\
 &\approx 31.7 \text{ cm}^2
 \end{aligned}$$

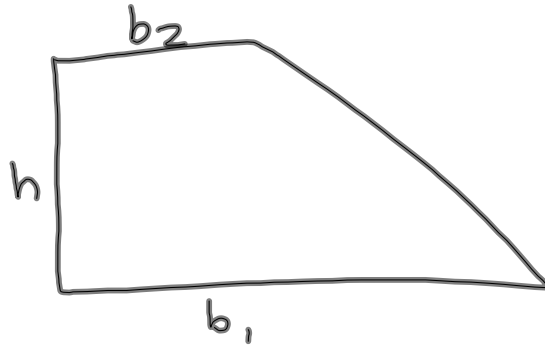


$$A = \frac{1}{2}bh$$

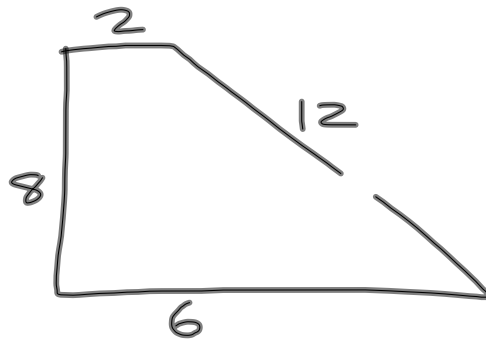
$$\begin{aligned}
 A &= \frac{1}{2} \cdot 5 \cdot 6 \\
 &= 15 \text{ cm}^2
 \end{aligned}$$



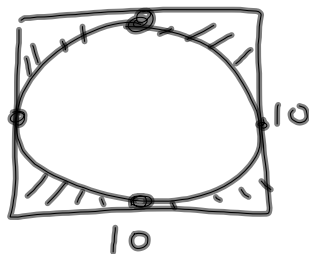
$$\begin{aligned}
 &\text{Whole} - \text{hole} \\
 &\frac{1}{2} \cdot 12 \cdot 5 - \frac{1}{2} \cdot 3 \cdot 4 \\
 &30 - 6 \\
 &24 \text{ cm}^2
 \end{aligned}$$



$$A = \frac{1}{2} \cdot h (b_1 + b_2)$$

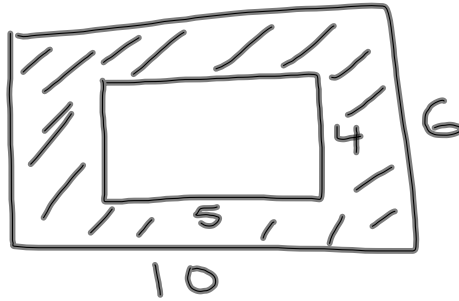
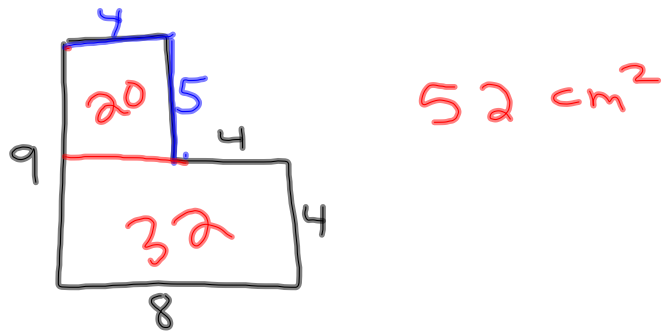


$$\begin{aligned} A &= \frac{1}{2} \cdot 8(6+2) \\ &= \frac{1}{2} \cdot 8 \cdot 8 \\ &= 32 \text{ cm}^2 \end{aligned}$$

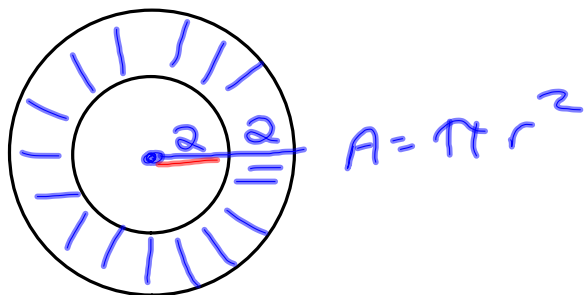


$$\begin{aligned} \text{Whole} - \text{hole} \\ 100 - \pi \cdot 5^2 \\ 100 - 25\pi \\ \approx 21.5 \text{ cm}^2 \end{aligned}$$

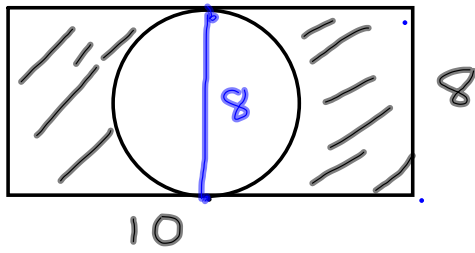
3-28-14
6th Geo



whole - hole
60 - 20
40 cm²



Whole - hole
 $\pi \cdot 4^2 - \pi \cdot 2^2$
 $16\pi - 4\pi$
 12π
 $\approx 37.7 \text{ cm}^2$

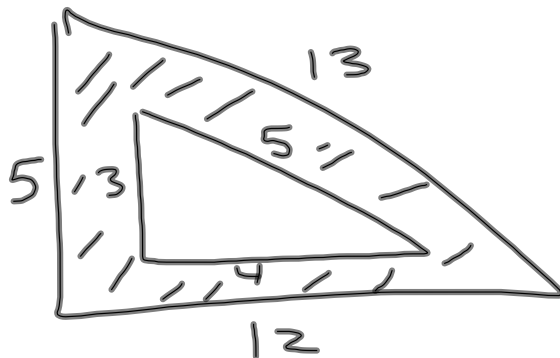
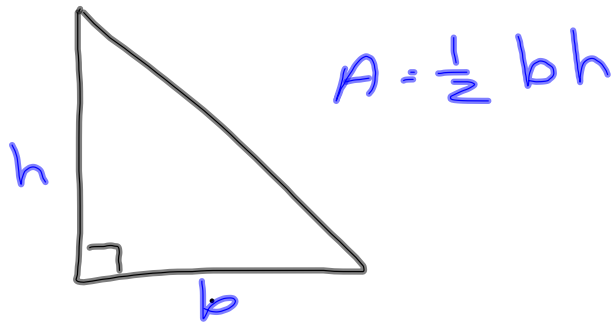


Whole - hole

$$80 - \pi \cdot 4^2$$

$$80 - 16\pi$$

$$\approx 29.7 \text{ cm}^2$$

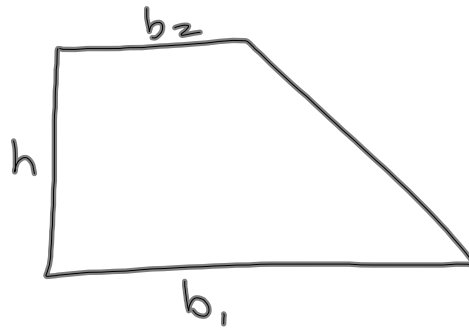


Whole - hole

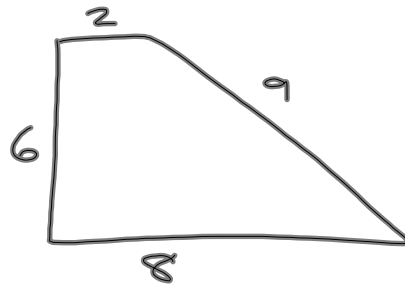
$$\frac{1}{2} \cdot 12 \cdot 5 - \frac{1}{2} \cdot 3 \cdot 4$$

$$30 - 6$$

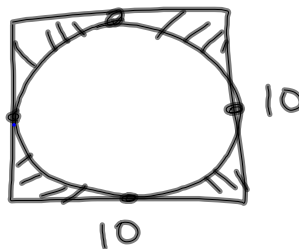
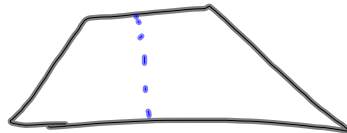
$$24 \text{ cm}^2$$



$$A = \frac{1}{2} h (b_1 + b_2)$$



$$\begin{aligned} A &= \frac{1}{2} \cdot 6 (8+2) \\ &= \frac{1}{2} \cdot 6 \cdot 10 \\ &= 30 \text{ cm}^2 \end{aligned}$$



$$\begin{aligned} \text{Whole} - \text{hole} \\ 100 - \pi \cdot 5^2 \\ 100 - 25\pi \\ \approx 21.5 \text{ cm}^2 \end{aligned}$$