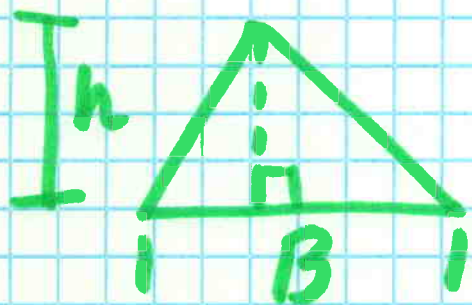
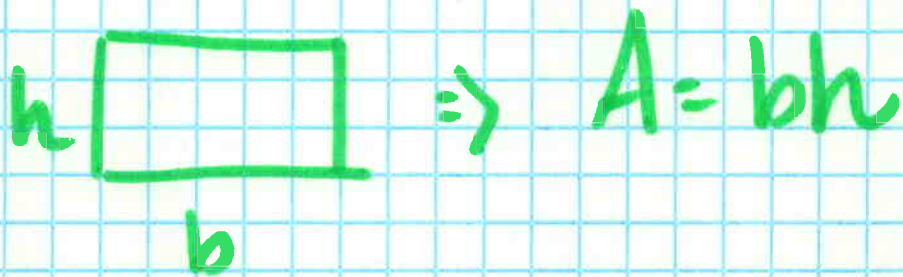
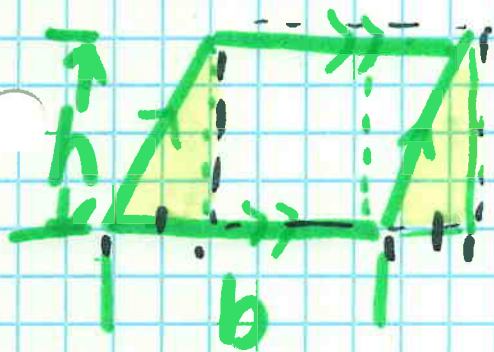


Area:

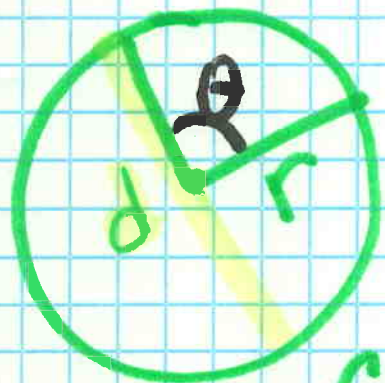


$$A = \frac{1}{2} bh$$



$$A = bh$$

Circumference, Arc Length



θ = "theta" - greek letter

$$C = \pi d$$

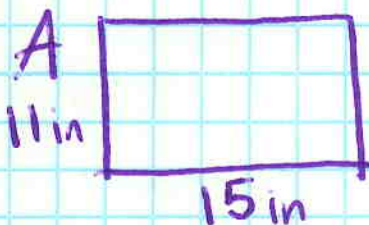
$$C = 2\pi r$$

Arc Length

$$= \frac{\theta}{360^\circ} \cdot C$$

Area of a Circle

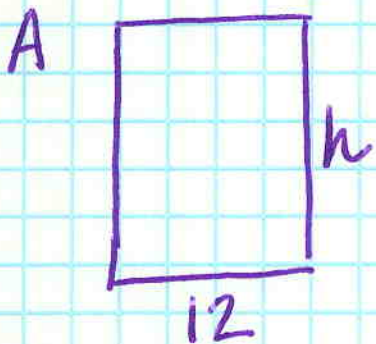
$$A = \pi r^2$$



$$A = bh \quad \leftarrow \text{formula}$$

$$A = (11) \cdot (15) \quad \leftarrow \text{fill in}$$

$$A = 165 \text{ in}^2 \quad \leftarrow \text{units}^2$$

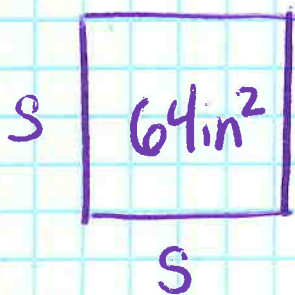


$$A = 182 \text{ in}^2 \quad \text{find } h$$

$$A = bh$$

$$\frac{182}{12} = \frac{12h}{12}$$

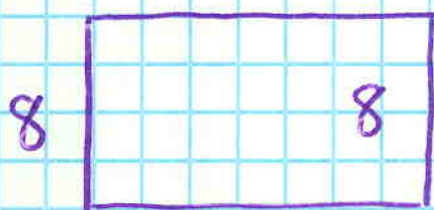
$$h = \frac{91}{6} \text{ in}^2$$



$$A = bh \quad A = s^2$$

$$s^2 = 64$$

$$s = 8$$



$$\text{Perimeter} = 56 \text{ ft}$$

Area

$$56 = 8 + 8 + x + x$$

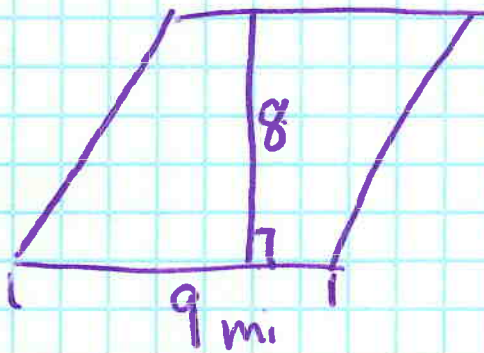
$$\begin{array}{r} 56 = 16 + 2x \\ -16 \quad -16 \\ \hline \end{array}$$

$$\frac{40}{2} = \frac{2x}{2} \quad x = 20$$

$$A = bh$$

$$A = 20(8)$$

$$A = 160$$



$$A = bh$$

$$A = 9(8) = 72 \text{ mi}^2$$



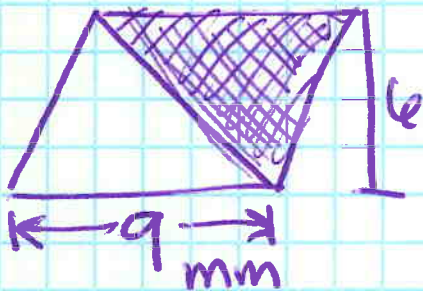
$$A = 99 \text{ cm}^2$$

~~$$a + 2 = h$$~~

$$a + 2 = h$$

$$9 + 2 = 11$$

$$9 \times 11 = 99$$



Find area of the shaded region

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

$$A = \frac{1}{2}(9)(6)$$

$$= 9 \cdot 3 = 27 \text{ mm}^2$$

Ex Small pie

$$d = 8''$$

$$d = 2r$$

$$r = 4$$

$$A = 4^2 \pi$$

$$A = 16\pi$$

Large pie

$$r = 5''$$

$$A = 5^2 \pi$$

$$A = 25\pi$$

$$25\pi - 16\pi = 9\pi \text{ inches bigger}$$
$$\approx 28.3 \text{ in}^2 \text{ bigger}$$

$$A = 256\pi \text{ m}^2$$

$$A = 256\pi \text{ m}^2$$

find circumference

$$A = \pi r^2$$

$$C = 2\pi r$$

$$\frac{256\pi}{\pi} = \frac{\pi r^2}{\pi}$$

$$C = 2\pi(16)$$

$$\sqrt{256} = \sqrt{r^2}$$

$$C = 32\pi \text{ m}$$

$$16 = r$$

425: 1, 3, 5, 6, 8

430: 1, 3, 5, 6,

451: 1-7 odd, 9, 10, 12, 14