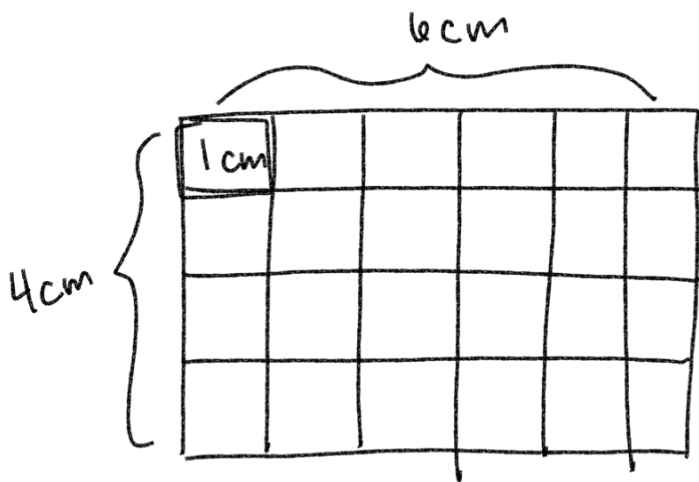


W-G Geometry Week 29 4/26



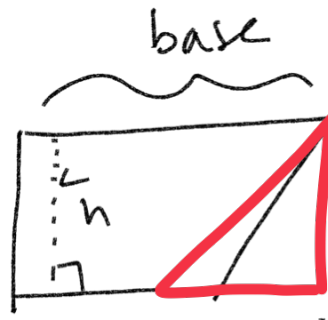
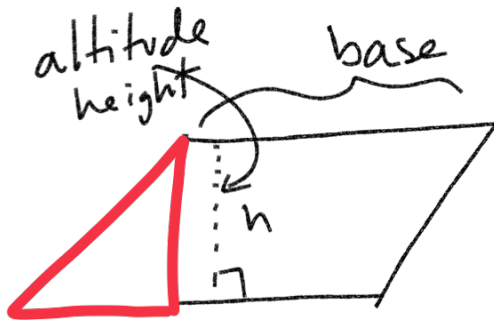
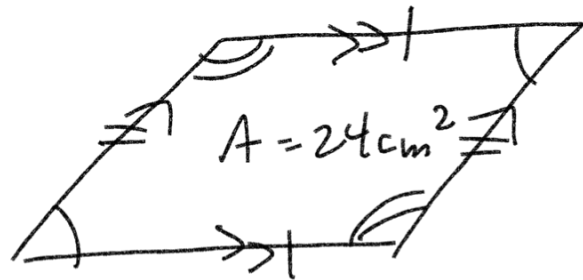
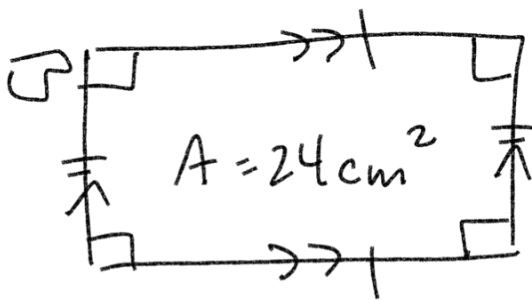
$$\text{Area} = \text{base} * \text{height}$$

$$A = bh$$

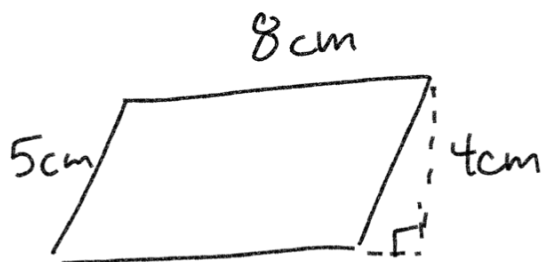
$$\text{Area} = (6 \text{ cm})(4 \text{ cm})$$

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

24 square centimeters

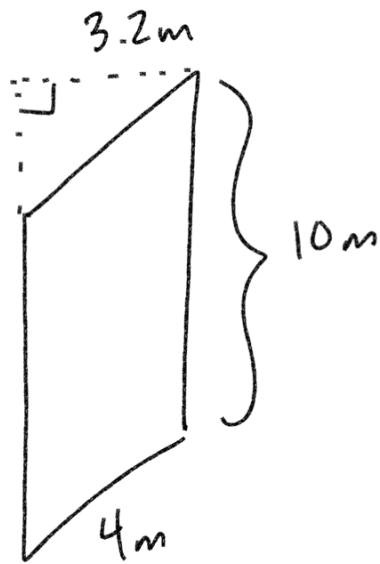


$$\text{Area} = \underline{\text{base}} * \underline{\text{altitude}}$$



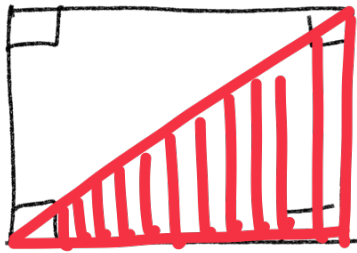
$$A = (8 \text{ cm})(4 \text{ cm})$$

$$32 \text{ cm}^2$$



$$A = bh = (10m)(3.2m)$$

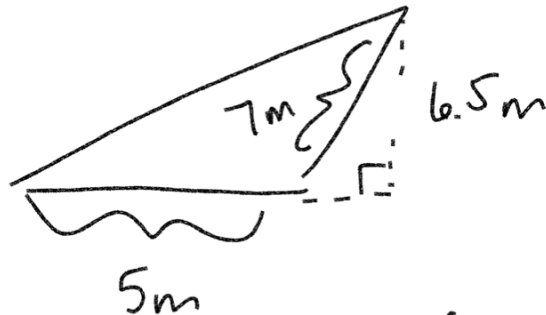
$$\boxed{32m^2}$$



$$\text{Area of Rectangle} = bh$$

$$\text{Area of Triangle} = \frac{1}{2}bh$$

If a triangle is  $\frac{1}{2}$  of a rectangle, its area is  $\frac{1}{2}bh$

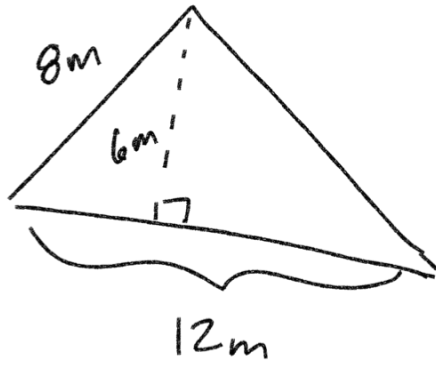


$$\text{Area} = \frac{1}{2}(\text{base})(\text{height})$$

$$\frac{1}{2}(5m)(6.5m) =$$

$$\boxed{16.25m^2}$$

1.)



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

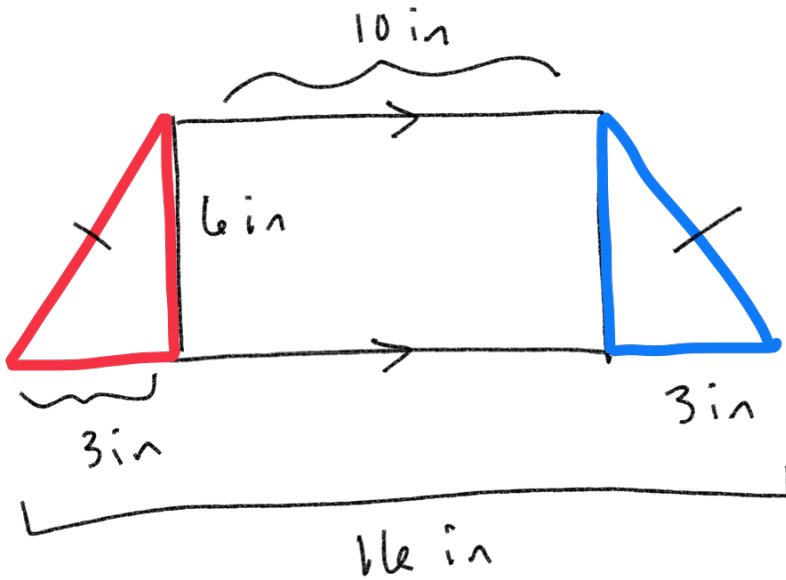
$$= \frac{1}{2}(12)(6) = \boxed{36\text{m}^2}$$

2.)



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

$$= \frac{1}{2}(5)(4) = \boxed{10\text{in}^2}$$

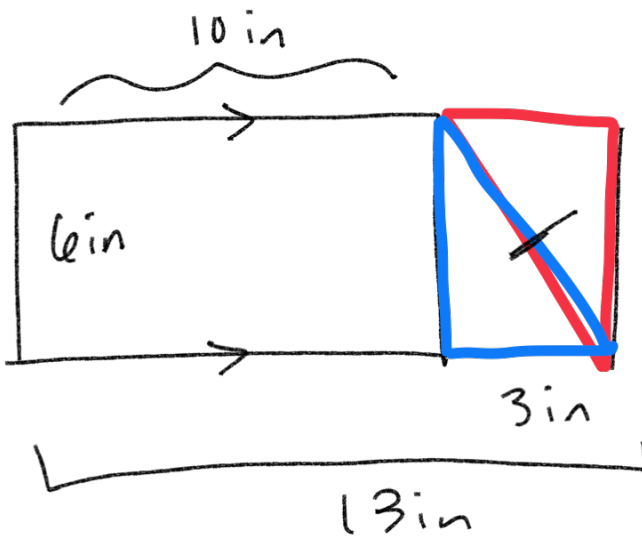


Area of Trapezoid

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

$$= \left(\frac{16 + 10}{2}\right)(6)$$

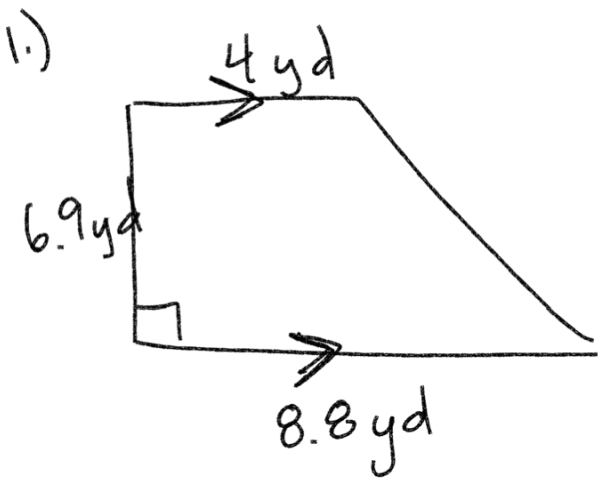
$$\left(\frac{26}{2}\right)(6) = (13)(6) = \boxed{78\text{in}^2}$$



$$A = bh$$

$$= (13\text{in})(6\text{in})$$

$$\boxed{78\text{in}^2}$$



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

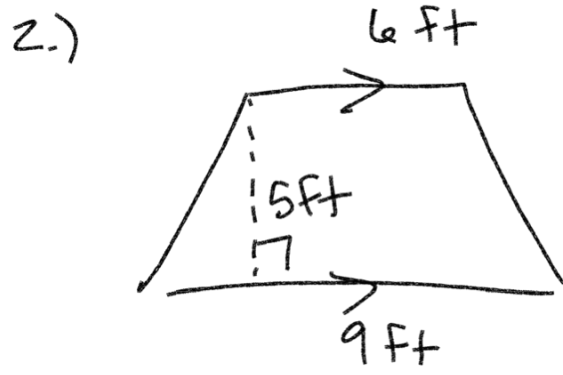
$$\frac{1}{2}(8.8 + 4)(6.9)$$

$$\frac{1}{2}(12.8)(6.9)$$

$$\boxed{44.16 \text{ yd}^2}$$

$$\frac{1}{2} \left( \frac{b_1 + b_2}{1} \right) h$$

$$\left( \frac{b_1 + b_2}{2} \right) h$$



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

$$\frac{1}{2}(6 + 9)(5)$$

$$\frac{1}{2}(15)(5)$$

$$\boxed{37.5 \text{ ft}^2}$$

$$\boxed{\left( \frac{b_1 + b_2}{2} \right) h}$$

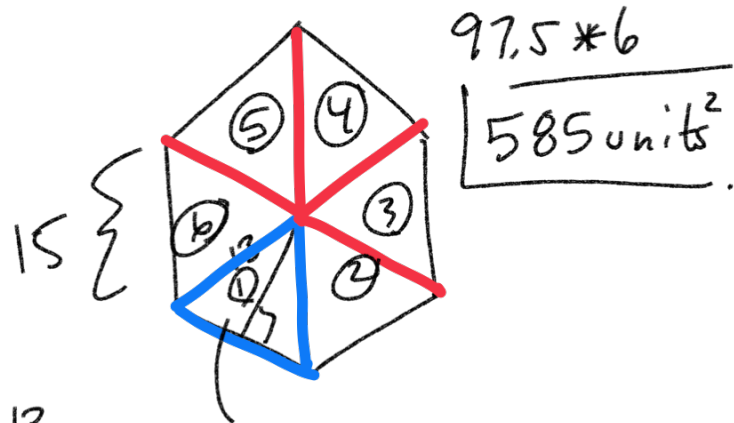
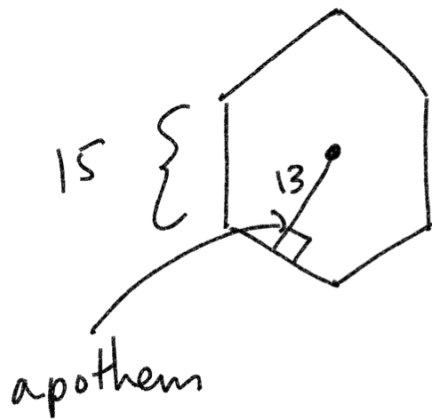
Keep  
Change  
Flip

$$20 \div \frac{1}{2}$$

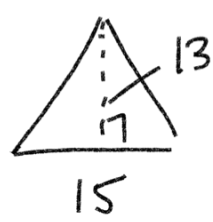
$$\downarrow \downarrow \downarrow$$

$$\frac{20}{1} \times \frac{2}{1} = \frac{40}{1} = \boxed{40}$$

Regular Polygon  
 ↳ all sides equal



$$\frac{97.5 * 6}{585 \text{ units}^2}$$



Area of triangle =  $\frac{1}{2}bh$   
 $\frac{1}{2}(15)(13)$   
 $= 97.5 \text{ units}^2$

Area of Regular Polygon

$$\frac{1}{2} (\text{perimeter})(\text{apothem})$$

$$\frac{1}{2} (15 * 6)(13) = 585 \text{ units}^2$$



$$A = \frac{1}{2} (\text{perimeter})(\text{apothem})$$

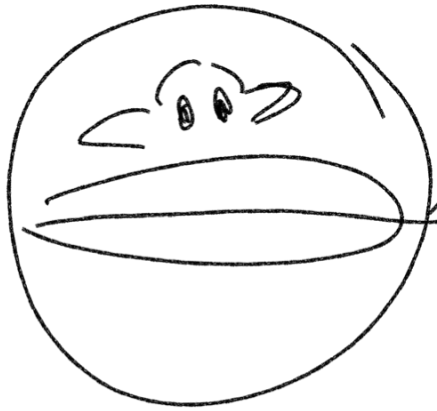
$$\frac{1}{2} (30.5 * 5)(21) =$$

$$1601.25 \text{ units}^2$$

# Volume of Sphere

$$V = \frac{4}{3} \pi r^3$$

$$V = \frac{4}{3} \pi \left(\frac{d}{2}\right)^3$$



$$d = 22\text{m}$$

$$V = \frac{4}{3} \pi \left(\frac{22}{2}\right)^3$$

$$\frac{4}{3} \pi (11)^3$$

$$5572\text{m}^3$$