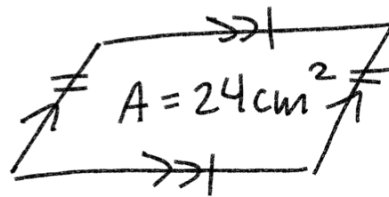
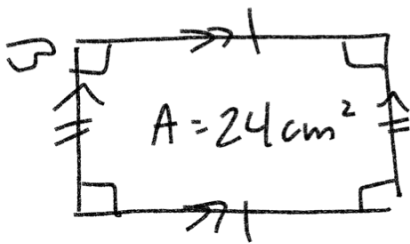


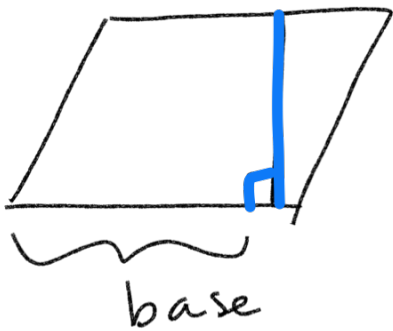
Area = base \* height

$A = bh$

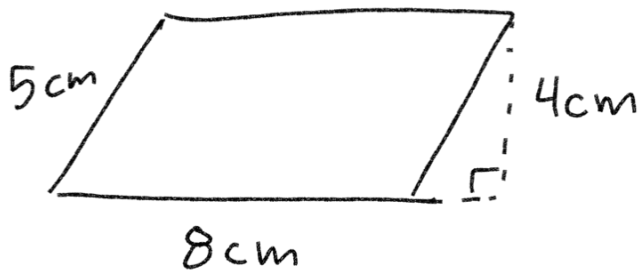
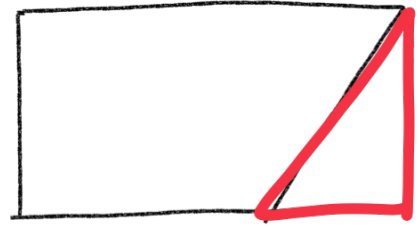
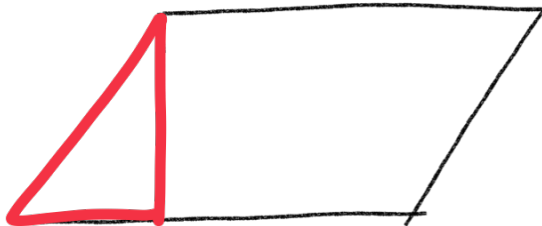
Area = (6 cm)(4 cm)  
= 24 cm<sup>2</sup>



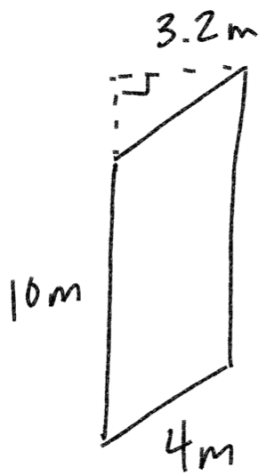
altitude  
(height)



Area = base \* altitude

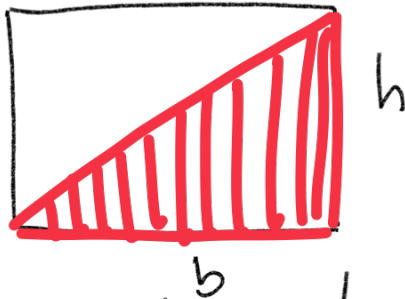


(8 cm)(4 cm)  
32 cm<sup>2</sup>



$$A = bh = (10m)(3.2m) \\ = \boxed{32m^2}$$

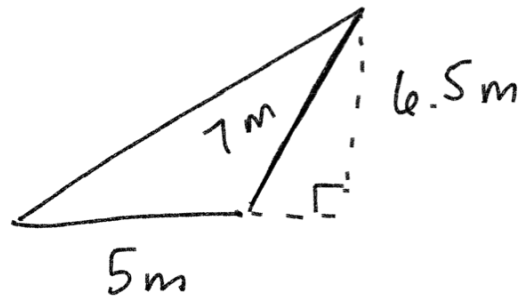
## Area of a Triangle



if a triangle  
is  $\frac{1}{2}$  of a  
rectangle

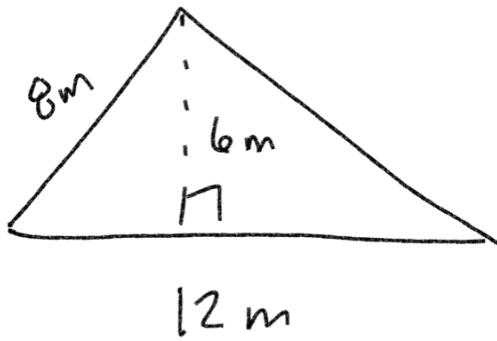
$$\text{Area of Rectangle} = bh$$

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



$$\text{Area} = \frac{1}{2}(\text{base})(\text{height}) \\ \frac{1}{2}(5m)(6.5m) = \boxed{16.25m^2}$$

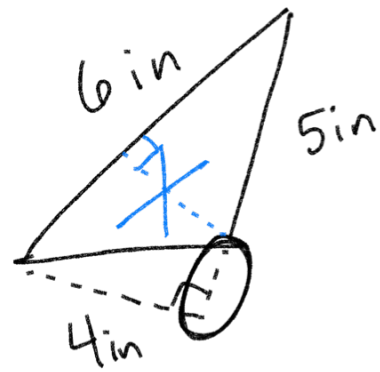
1.)



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

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

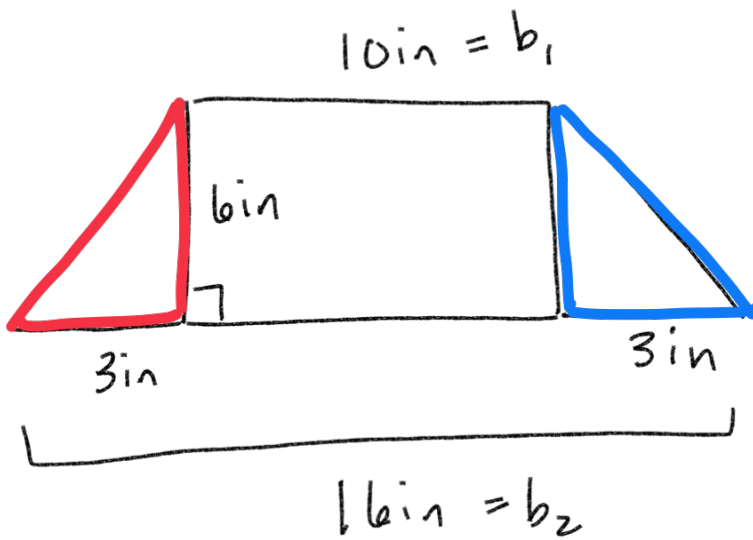
2.)



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

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

$$= \boxed{10\text{ in}^2}$$

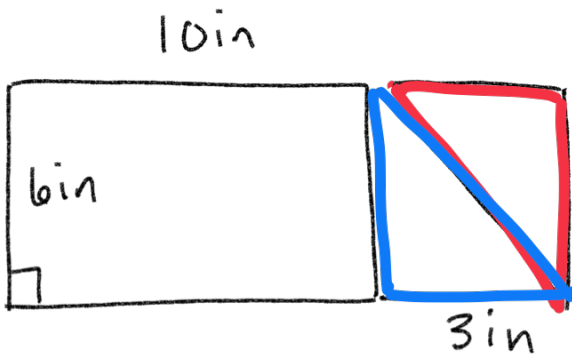


Area of  
Trapezoid

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

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

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

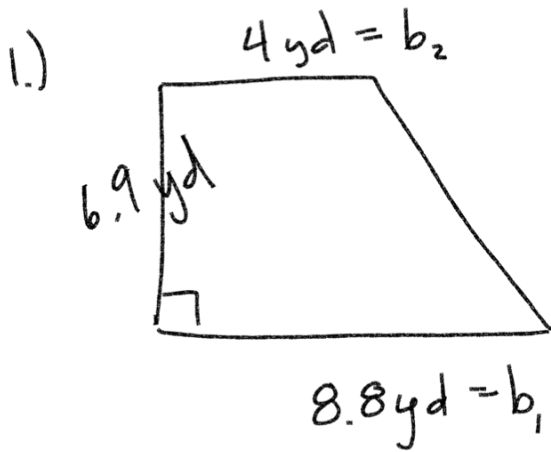


$$A = bh$$

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

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

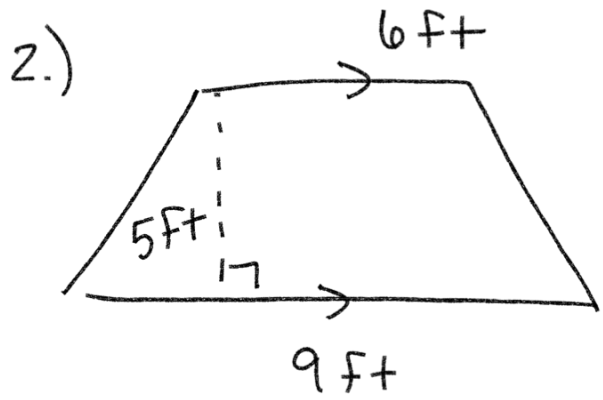
16 in



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

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

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



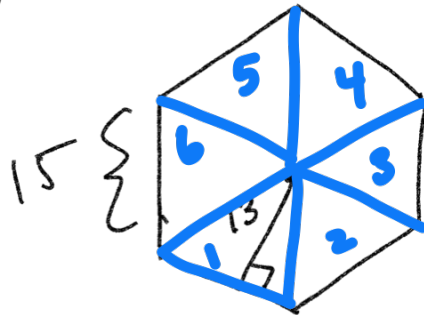
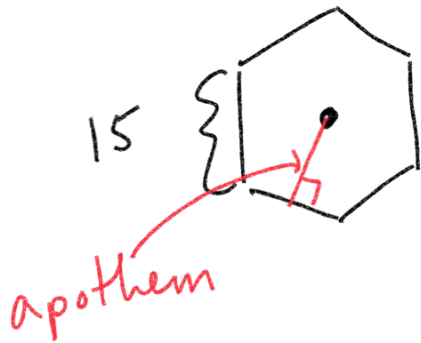
$$A = \frac{1}{2}(b_1 + b_2)h$$

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

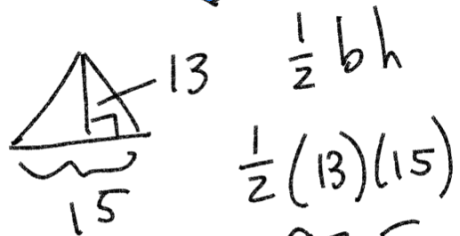
$$\frac{1}{2}(15)(5) = \boxed{37.5 \text{ ft}^2}$$

Regular Polygon  
 ↳ All sides are equal

6 triangles



Area of Regular Polygon



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

$$\frac{1}{2}(13)(15)$$

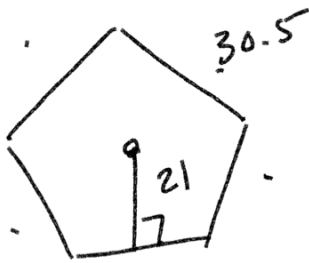
$$97.5$$

$$\frac{1}{2}(\text{perimeter})(\text{apothem}) \quad (97.5)(6) = \boxed{585 \text{ units}^2}$$

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

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

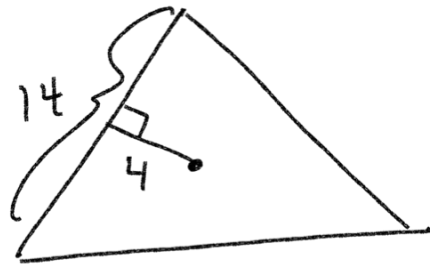
1.)



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

$$\frac{1}{2} (30.5)(5)(21) \\ = 1601.25 \text{ units}^2$$

2.)



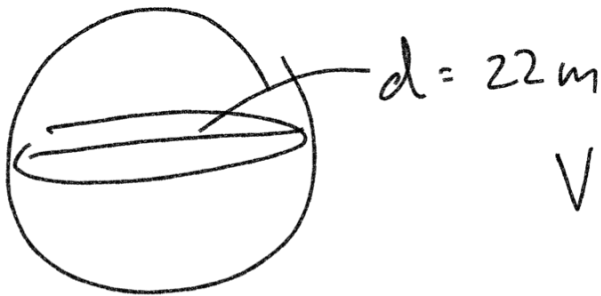
$\frac{1}{2}$  (perimeter) (apothem)

$$\frac{1}{2} (14)(3)(4) \\ \boxed{84 \text{ units}^2}$$

Volume of Sphere

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

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



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

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