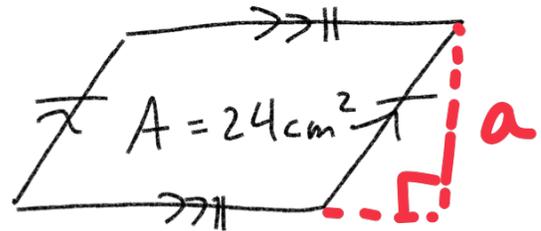
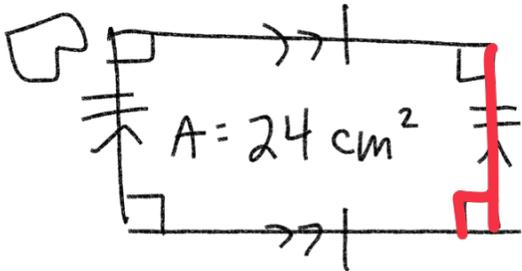


Area = base * height

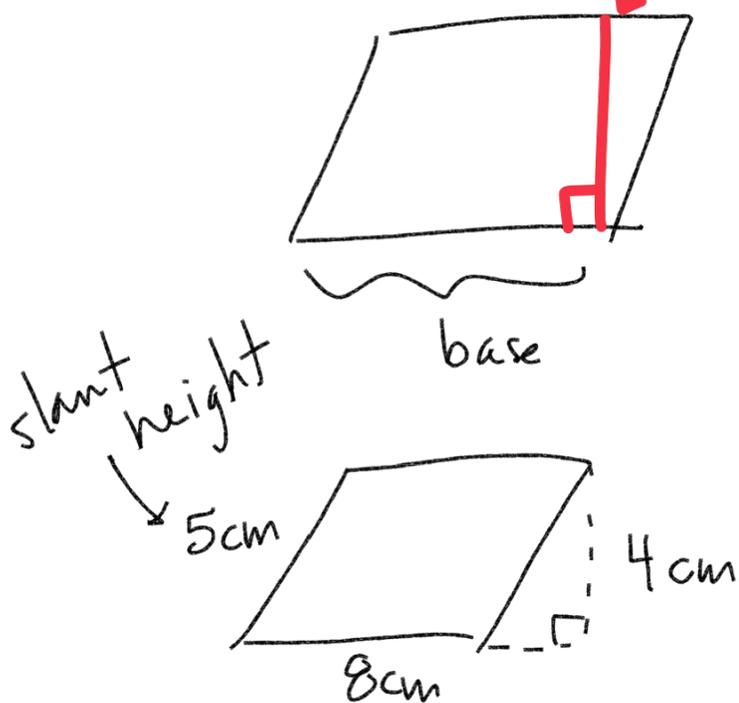
$A = bh$

Area = (6 cm)(4 cm)

= 24 cm^2 "squared"



Area of Parallelogram

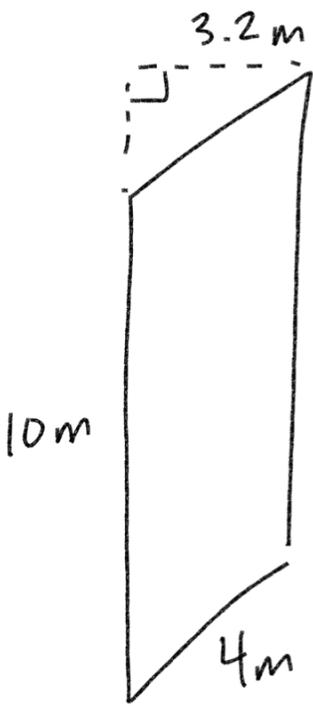


"altitude (height for mountains)"

Area = base * altitude.

$A = 8 \text{ cm} * 4 \text{ cm}$

32 cm^2

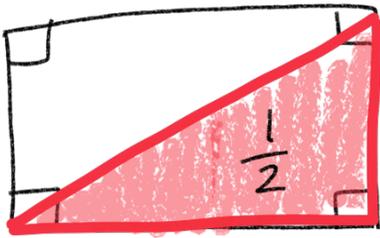


Area = base * altitude

↓ ↓

10m * 3.2m = 32m²

Area of Triangle

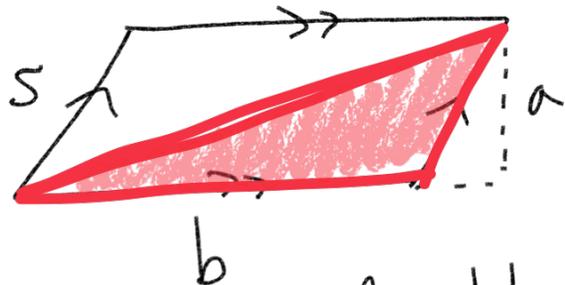
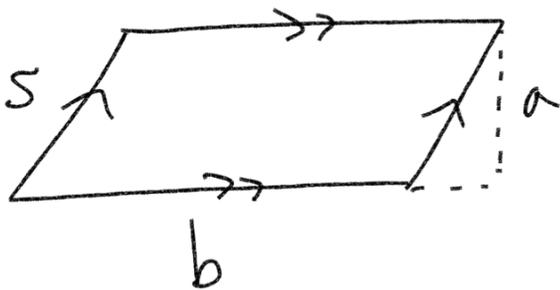


Triangle = $\frac{1}{2}$ Rectangle

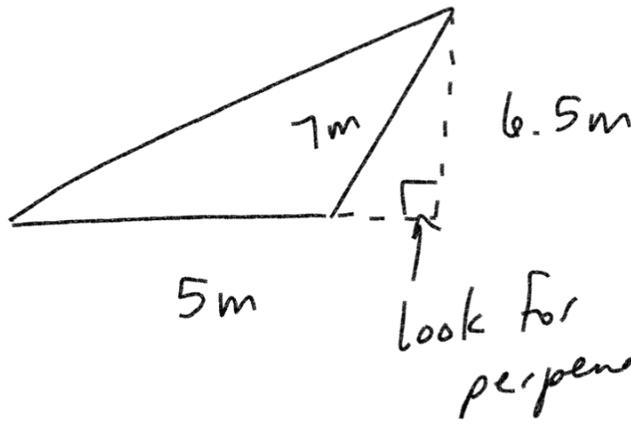
Area of Rectangle = bh

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

$A = ba$



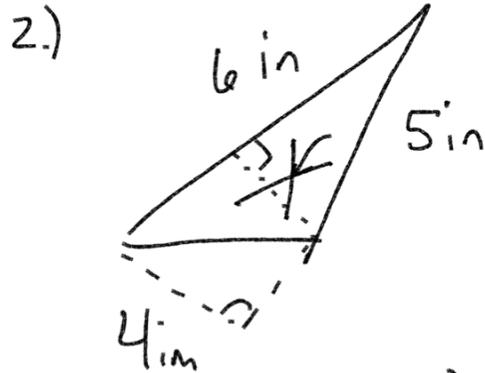
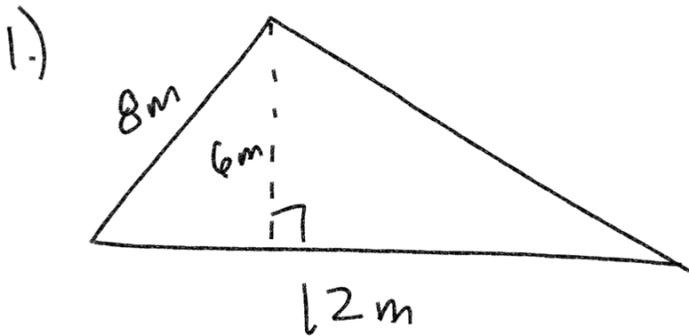
$A = \frac{1}{2}ba$



$$\text{Area} = \frac{1}{2} b a$$

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

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



$$A = \frac{1}{2} (ba)$$

↓

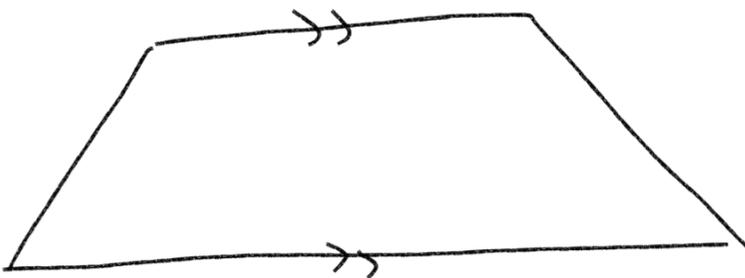
$$\frac{1}{2} (12\text{m})(6\text{m}) = \boxed{36\text{m}^2}$$

units²

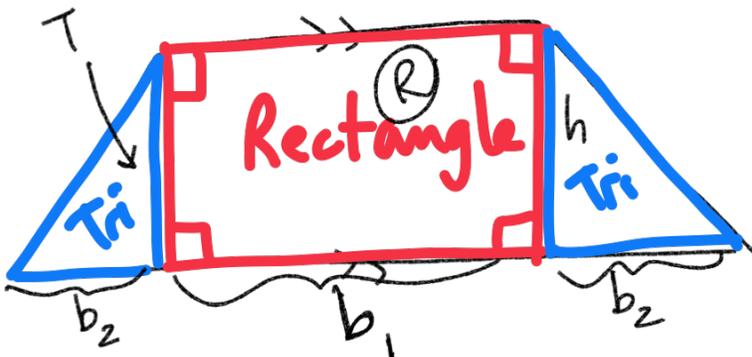
$$A = \frac{1}{2} (ba)$$

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

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



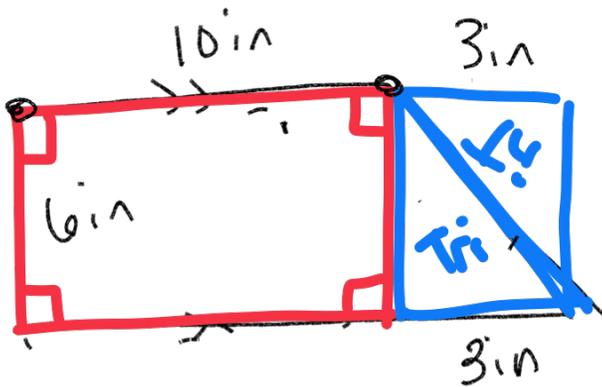
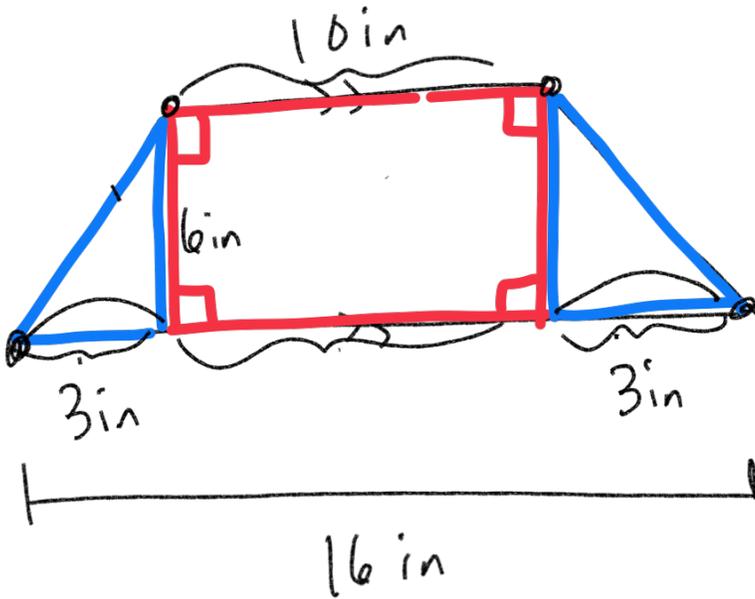
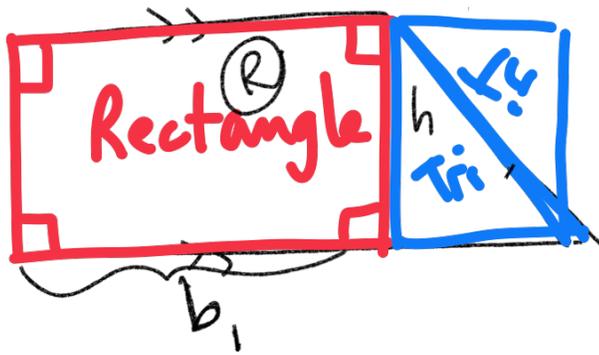
Area of Trapezoid



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

$$b_1 h + \frac{1}{2} b_2 h + \frac{1}{2} b_2 h$$

$$b_1 h + (b_2) h$$



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

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

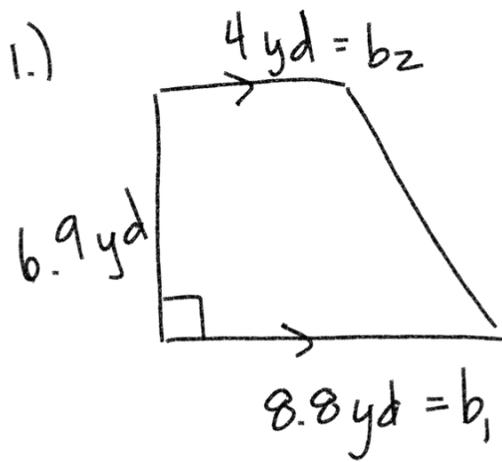
$$\left(\frac{26 \text{ in}}{2} \right) 6 \text{ in}$$

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

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

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

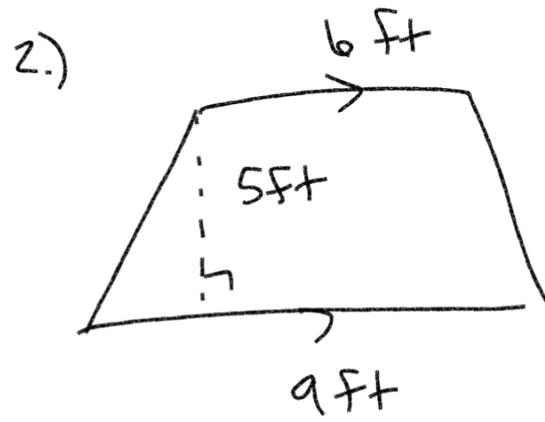
$$\boxed{78 \text{ in}^2}$$



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

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

44.16 yd^2

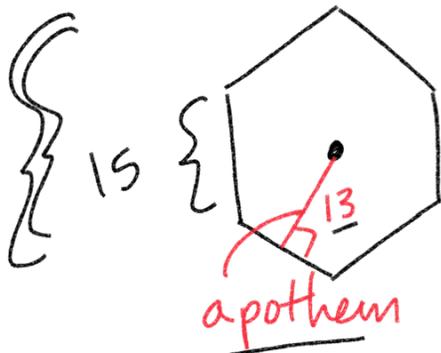


$$A = \left(\frac{6 + 9}{2} \right) 5$$

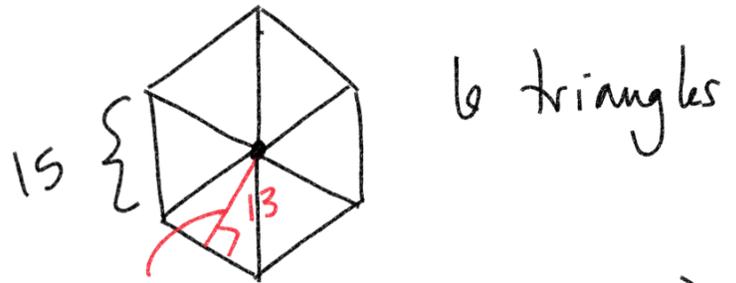
$$\left(\frac{15}{2} \right) 5 =$$

37.5 ft^2

Regular Polygon
 ↳ All sides are equal



hexagon Area of Regular Polygon



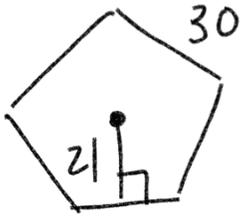
$$6 \left(\frac{1}{2} bh \right) = 6 \left(\frac{1}{2} (15)(13) \right)$$

$$= 585 \text{ units}^2$$

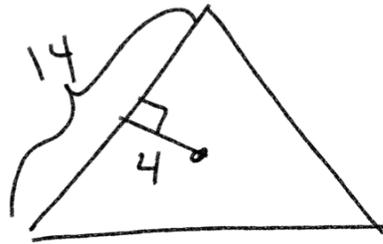
$$\frac{1}{2} (\text{perimeter})(\text{apothem})$$

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

1.)



2.)



Regular Polygon

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

$$\frac{1}{2} (\# \text{ of sides}) (\text{side length}) (\text{apothem})$$

$$\frac{1}{2} (5)(30)(21) = \boxed{1575 \text{ units}^2}$$

$$A = \frac{1}{2} (3)(14)(4)$$

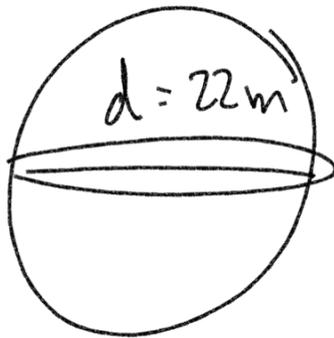
$$\boxed{84 \text{ units}^2}$$

Volume of Sphere

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

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

$r = \text{radius}$
 $d = \text{diameter}$



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

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