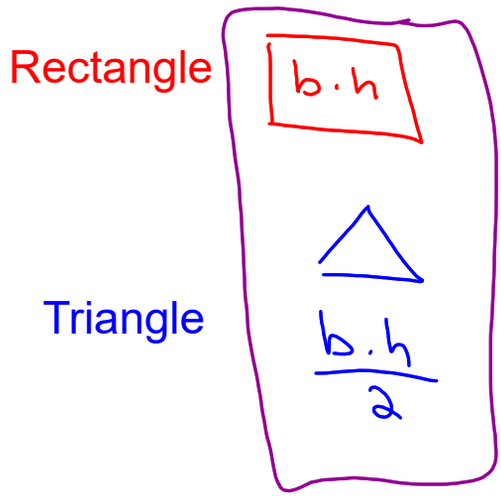
6-1 Area of Polygons & Complex Figures

Day 2

- I can find the area of polygons.
- I can find the area fo complex figures.



Finding the area of a Complex Figure:

1. Divide the figure into tri & rect shapes you know how to the find area of.

2. Use the appropriate formula to find the area of each shape.

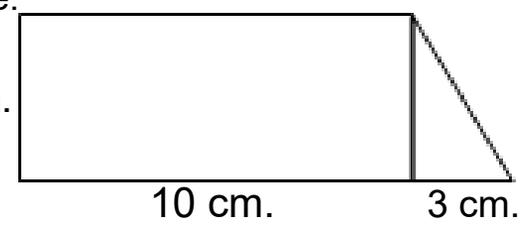
3. Add the areas of each shape together for the total area.

Finding the area of a Complex Figure:

- Find the area of the complex figure below:

1st: Find the area of the rectangle:

$10 \times 5 = 50$



2nd: Find the area of the triangle:

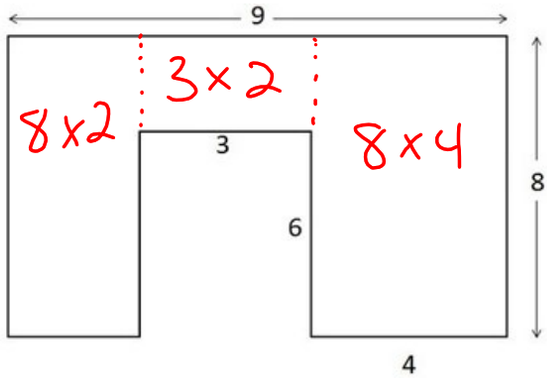
$\frac{3 \times 5}{2} = \frac{15}{2} = 7.5$

3rd: Add the two ~~areas together~~

$50 + 7.5 = 57.5\ cm^2$

Finding the area of a Complex Figure:

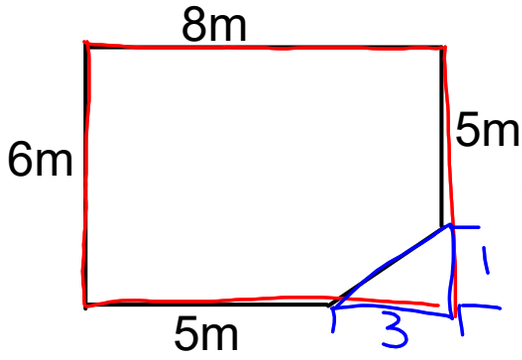
- Find the area of the complex figure below:



$16 + 6 + 32 = 54\ units^2$

Finding the area of a Complex Figure:

- Find the area of the complex figure below:



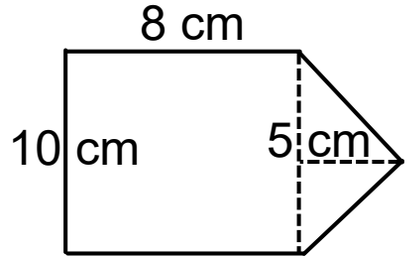
$8 \times 6 = 48.0$

$\frac{3 \times 1}{2} = \frac{3}{2} = 1.5$

$46.5 m^2$

Finding the area of a Complex Figure:

- Find the area of the complex figure below:



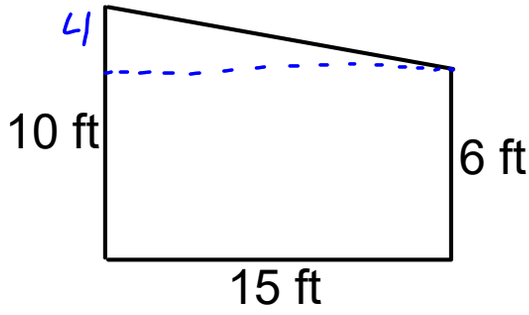
$10 \times 8 = 80$

$\frac{10 \cdot 5}{2} = \frac{50}{2} = 25$

$105 cm^2$

Finding the area of a Complex Figure:

- Find the area of the complex figure below:



$6 \cdot 15 = 90$

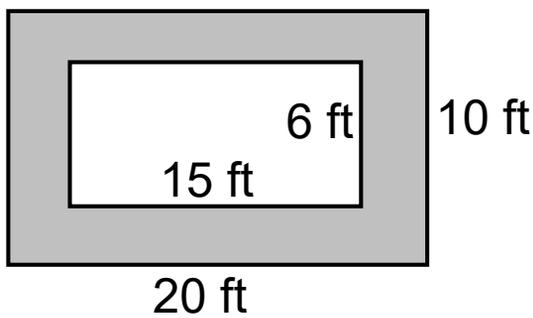
$\frac{4 \cdot 15}{2} = \frac{60}{2} = 30$

$90 + 30$

$120\ ft^2$

Finding the area of a Complex Figure:

- Find the area of the complex figure below:



$20 \times 10 = 200$

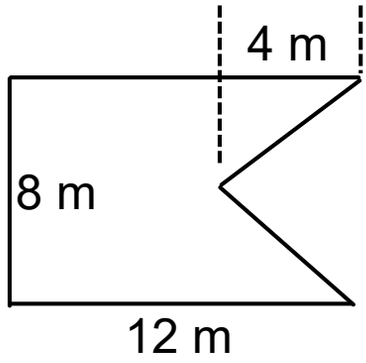
$15 \times 6 = 90$

$200 - 90$

$110\ ft^2$

Finding the area of a Complex Figure:

- Find the area of the complex figure below:



$8 \cdot 12 = 96$

$\frac{8 \cdot 4}{2} = \frac{32}{2} = 16$

$80 m^2$