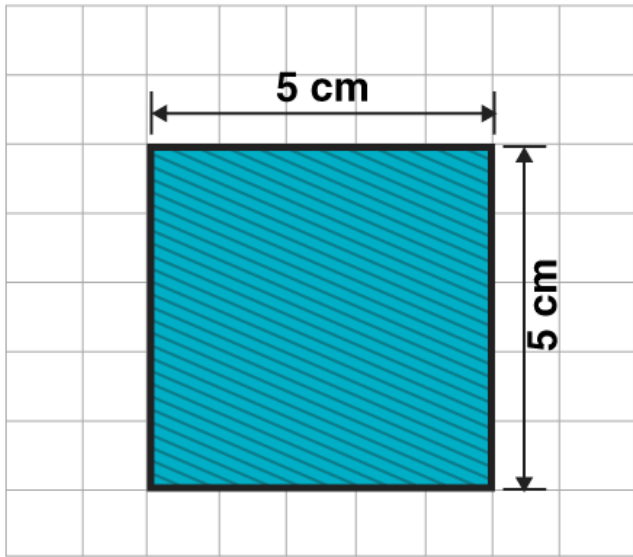


AREA OF A SQUARE

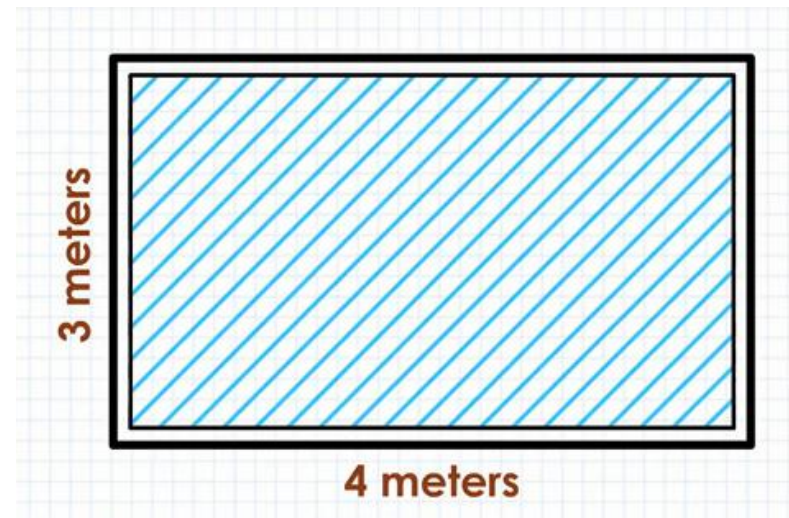


$$A = b \times h$$

$$A = 5 \times 5$$

$$A = 25 \text{ cm}^2$$

AREA OF A RECTANGLE



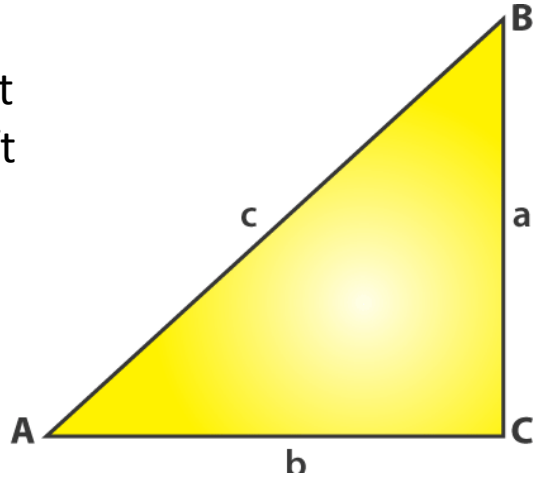
$$A = b \times h$$

$$A = 4 \times 3$$

$$A = 12 \text{ cm}^2$$

AREA OF A TRIANGLE

$$a = 7 \text{ ft}$$
$$b = 8 \text{ ft}$$



$$A = \frac{b \times h}{2}$$

$$A = \frac{7 \times 8}{2}$$

$$A = \frac{56}{2}$$

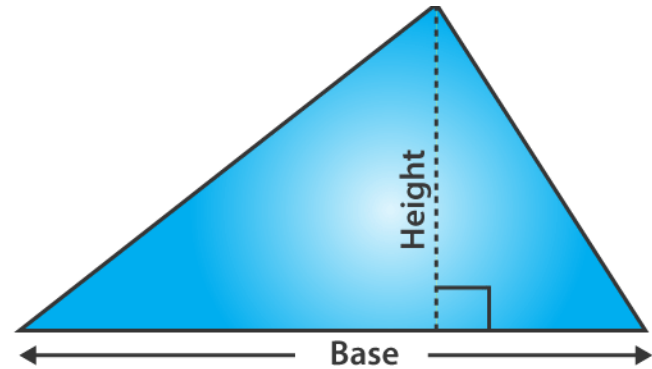
$$A = 28 \text{ ft}^2$$

$$A = \frac{b \times h}{2}$$

$$A = \frac{5 \times 9}{2}$$

$$A = \frac{45}{2}$$

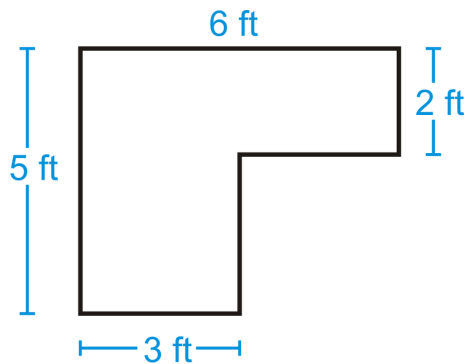
$$A = 22.5 \text{ m}^2$$



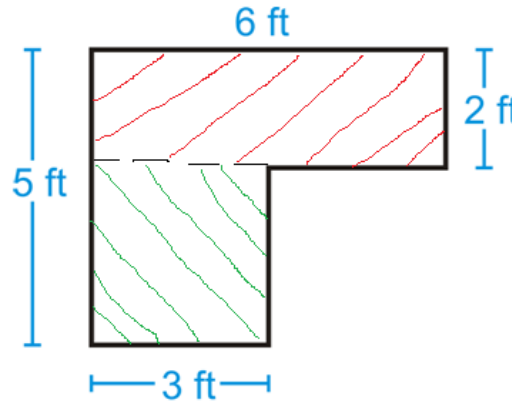
$$a = 5 \text{ m}$$

$$b = 9 \text{ m}$$

AREA OF COMBINED SHAPES



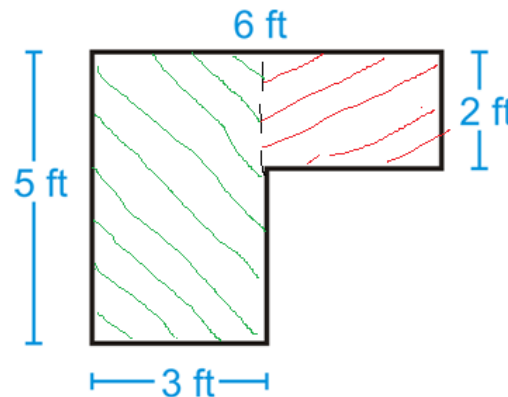
There are many ways of calculating the area of these shapes. Dividing the shape into smaller ones is very practical,



Option 1

$$\begin{aligned}\text{AREA red} &= 6 \times 2 = 12 \text{ ft}^2 \\ \text{AREA green} &= 3 \times 3 = 9 \text{ ft}^2\end{aligned}$$

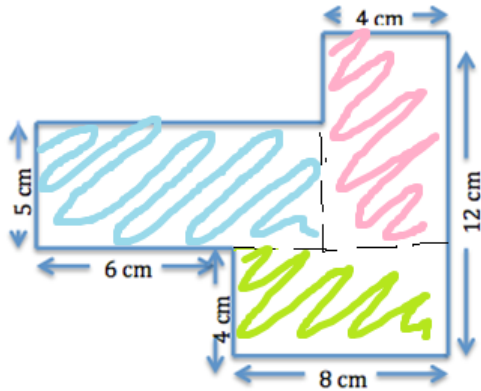
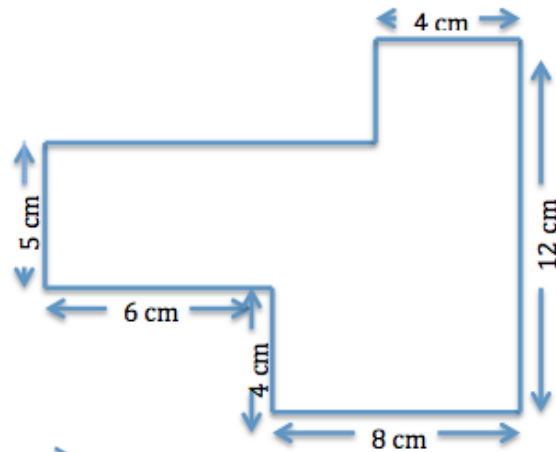
$$\begin{aligned}\text{TOTAL Area} &= \text{GREEN} + \text{RED} \\ \text{TOTAL Area} &= 9 + 12 = 21 \text{ ft}^2\end{aligned}$$



Option 2

$$\begin{aligned}\text{AREA red} &= 3 \times 2 = 6 \text{ ft}^2 \\ \text{AREA green} &= 3 \times 5 = 15 \text{ ft}^2\end{aligned}$$

$$\begin{aligned}\text{TOTAL Area} &= \text{GREEN} + \text{RED} \\ \text{TOTAL Area} &= 9 + 12 = 21 \text{ ft}^2\end{aligned}$$



Option 1

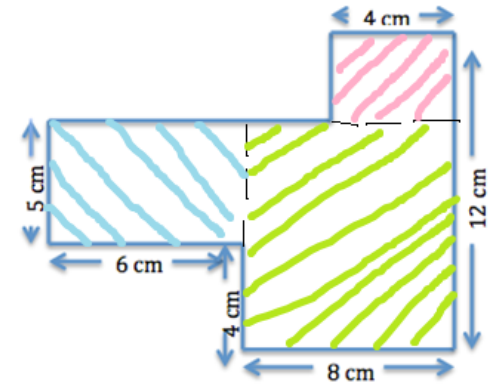
$$\text{AREA pink} = 4 \times 8 = 32 \text{ cm}^2$$

$$\text{AREA green} = 4 \times 8 = 32 \text{ cm}^2$$

$$\text{AREA blue} = 10 \times 5 = 50 \text{ cm}^2$$

$$\text{TOTAL Area} = \text{GREEN} + \text{PINK} + \text{BLUE}$$

$$\text{TOTAL Area} = 32 + 32 + 50 = 114 \text{ cm}^2$$



Option 2

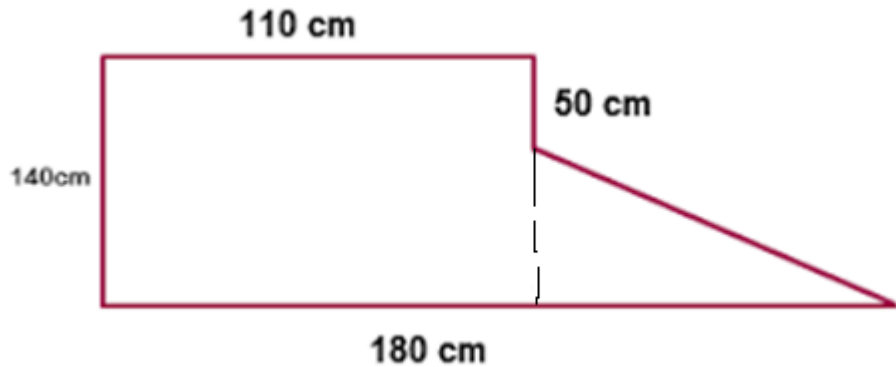
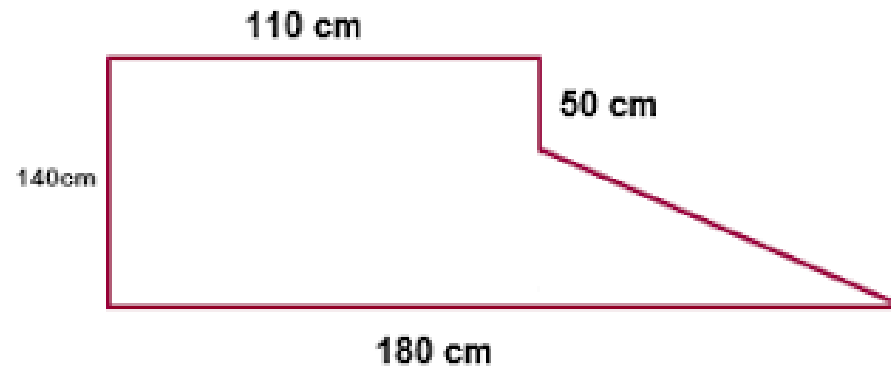
$$\text{AREA pink} = 4 \times 3 = 12 \text{ cm}^2$$

$$\text{AREA green} = 9 \times 8 = 72 \text{ cm}^2$$

$$\text{AREA blue} = 6 \times 5 = 30 \text{ cm}^2$$

$$\text{TOTAL Area} = \text{GREEN} + \text{PINK} + \text{BLUE}$$

$$\text{TOTAL Area} = 72 + 12 + 30 = 114 \text{ cm}^2$$



Sides of triangle

$$B = 180 - 110 = 70 \text{ cm}$$

$$h = 140 - 50 = 90 \text{ cm}$$

$$\text{AREA triangle} = \frac{b \times h}{2}$$

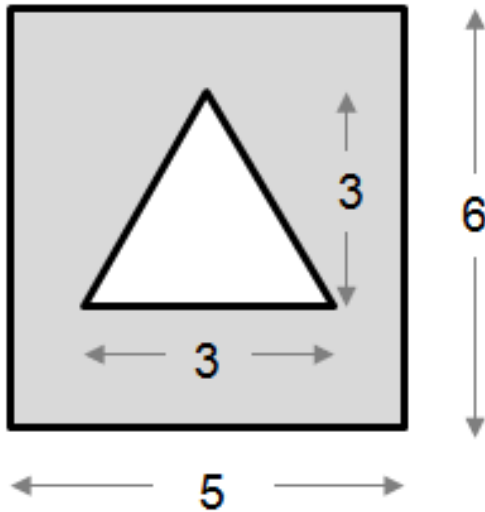
$$\text{AREA triangle} = \frac{90 \times 70}{2} = \frac{6300}{2} = 3150 \text{ cm}^2$$

$$\text{AREA rectangle} = b \times h$$

$$\text{AREA rectangle} = 110 \times 140 = 15400 \text{ cm}^2$$

$$\text{TOTAL Area} = \text{RECT} + \text{TRIA}$$

$$\text{TOTAL Area} = 15400 + 3150 = 18550 \text{ cm}^2$$



AREA rectangle = $b \times h$

$$A = 5 \times 6$$

$$A = 30 \text{ cm}^2$$

AREA triangle = $\frac{b \times h}{2}$

$$A = \frac{(3 \times 3)}{2} = \frac{9}{2}$$

$$A = 4.5 \text{ cm}^2$$

TOTAL Area = AREA rectangle – AREA triangle

$$A = 30 - 4.5 = 25.5 \text{ cm}^2$$