Name Key

Date _____

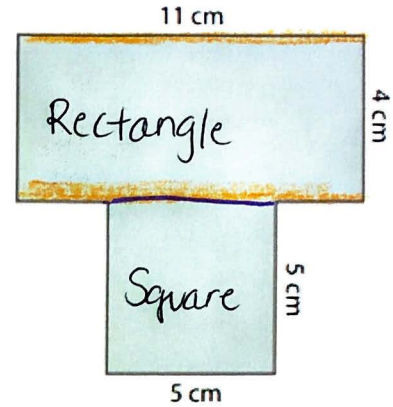
Day 6: Area of Composite Figures

7 Regulars

AIM: How do you find the area of a composite figure?

Example #1:

Find the area of the composite figure. Show all of your work.



Step 1: **Break** the composite figure into individual shapes.

Step 2: Find the **area** of each piece.

Step 3: Find the **sum** of the areas. add the areas

Rectangle

$A = bh$

$A = 11(4)$

$A = 44$

Square

$A = bh$

$A = 5(5)$

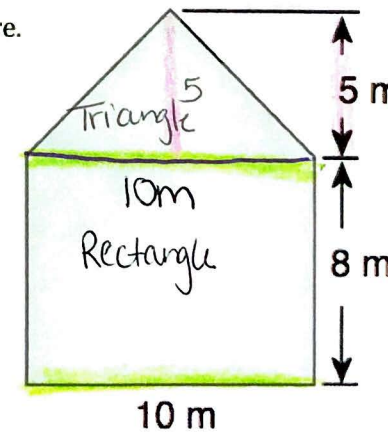
$A = 25$

$44 + 25$

$\boxed{69\ cm^2}$

Example #2:

The figure is made up of a triangle and a rectangle, find the area of the figure.



Triangle

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

$A = \frac{1}{2}(10)(5)$

$A = 25$

Rectangle

$A = bh$

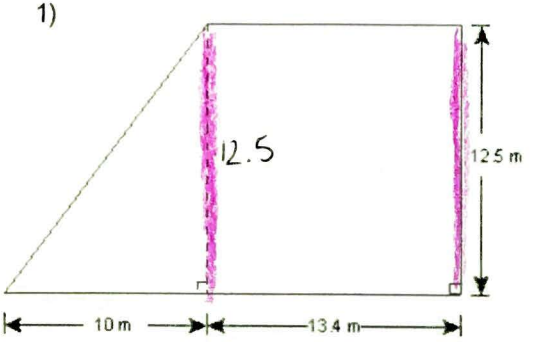
$A = 10(8)$

$A = 80$

$80 + 25 = \boxed{105\ m^2}$

On your own: Find the **area** of the figures shown below. ***Show your work.***

1)



Triangle

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

$A = \frac{1}{2}(10)(12.5)$

$A = 62.5$

Rectangle

$A = bh$

$A = 13.4(12.5)$

$A = 167.5$

$62.5 + 167.5 = \boxed{230 m^2}$

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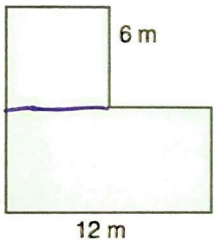
2)



Square

$A = bh$

$A = 6(6)$

$A = 36$

Rectangle

$A = bh$

$A = 12(6)$

$A = 72$

$36 + 72$

$\boxed{108 m^2}$

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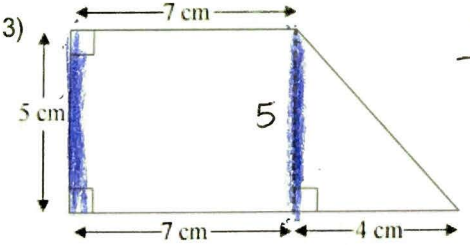
3)



Rectangle

$A = bh$

$A = 5(7)$

$A = 35$

Triangle

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

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

$A = 10$

$35 + 10$

$\boxed{45 cm^2}$

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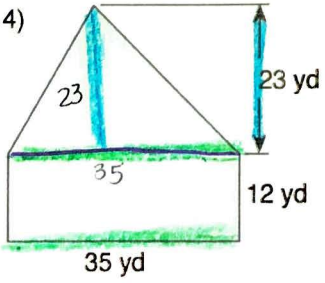
4)



Triangle

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

$A = \frac{1}{2}(35)(23)$

$A = 402.5$

Rectangle

$A = bh$

$A = 35(12)$

$A = 420$

$402.5 + 420$

$\boxed{822.5 yd^2}$