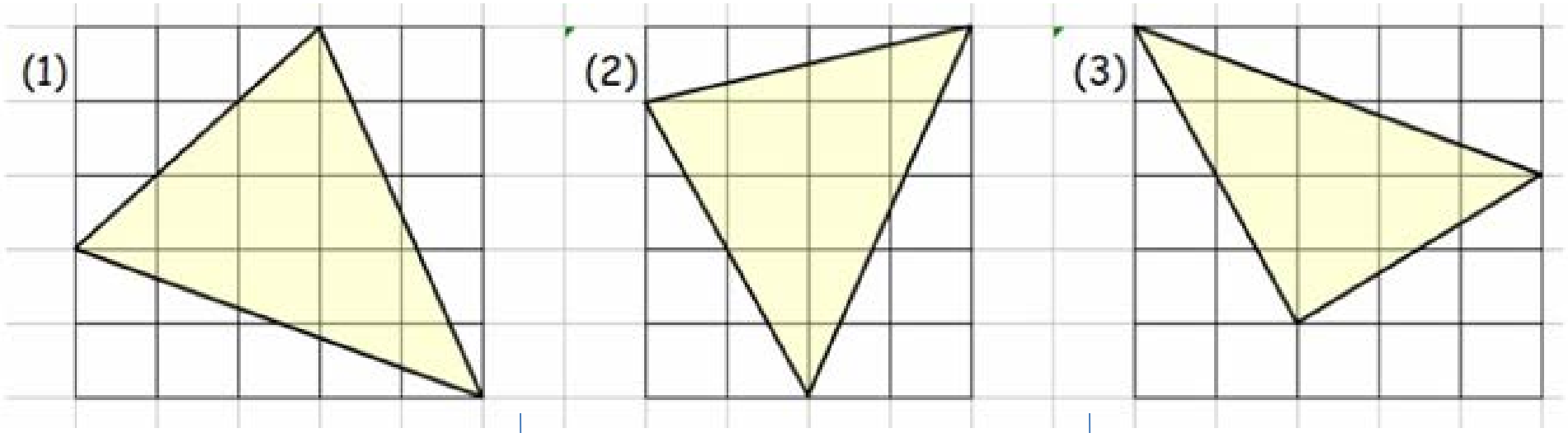
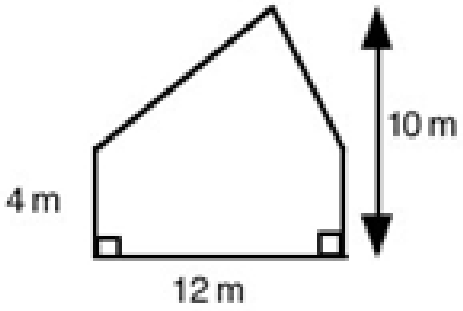
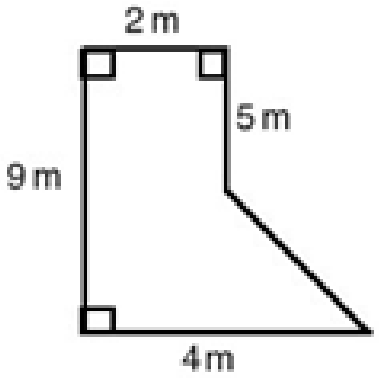
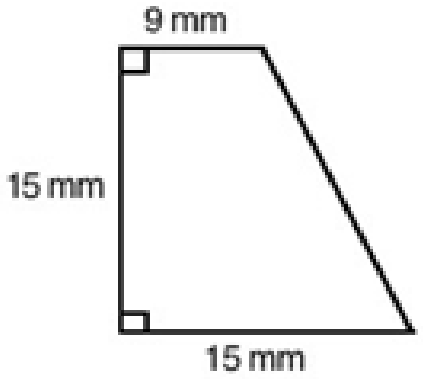
Area on Coordinate Plane and Composite Area Notes and Practice Name _____

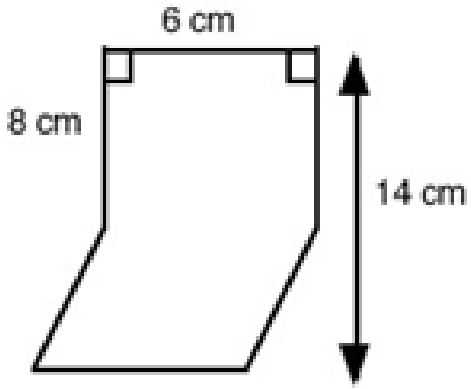


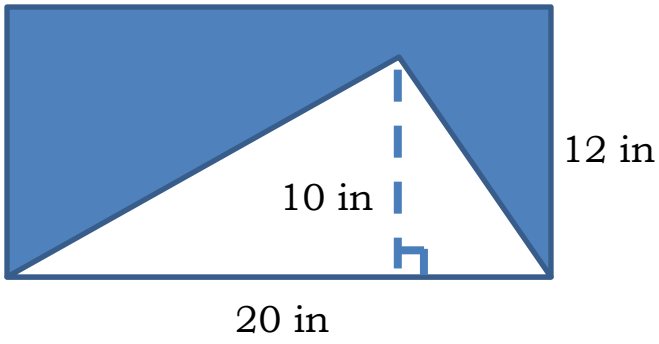
Show Work:

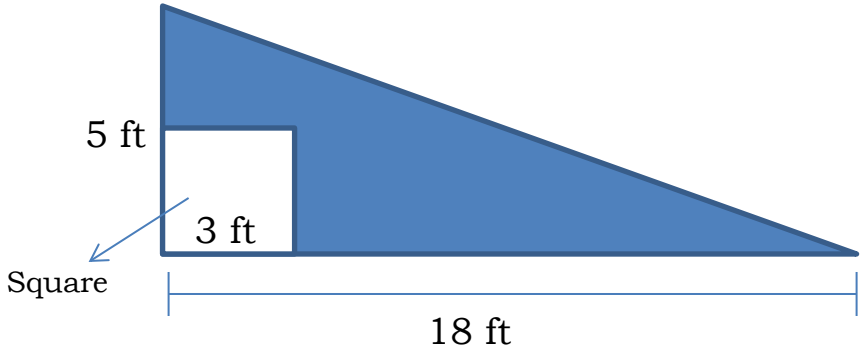

10 m
4 m
12 m


2 m
5 m
9 m
4 m


9 mm
15 mm
15 mm


6 cm
8 cm
14 cm

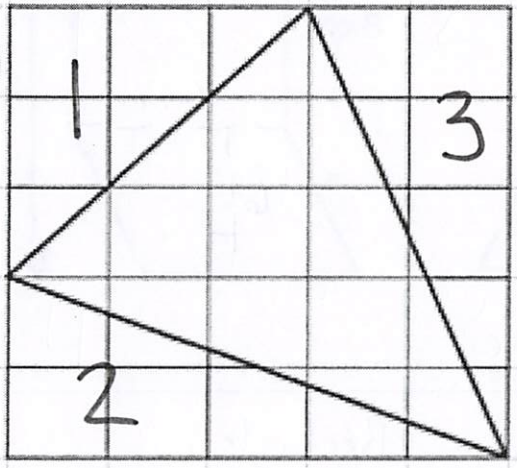

12 in
10 in
20 in


5 ft
3 ft
Square
18 ft

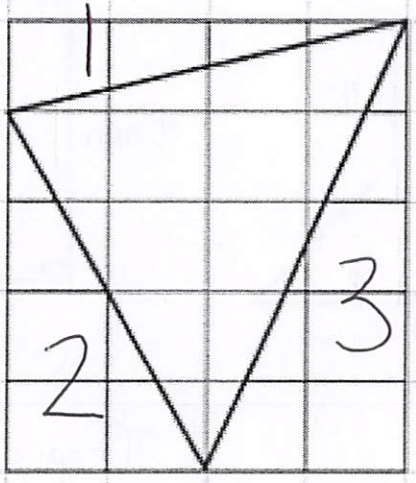
Area on Coordinate Plane and Composite Area

Name Key

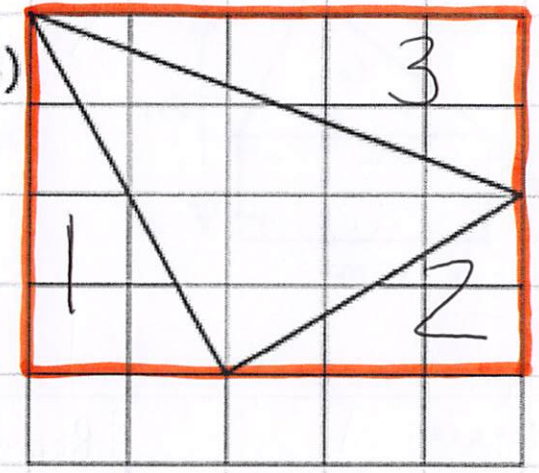
(1)



(2)



(3)



Show Work:

Square: $5 \cdot 5 = 25$

$\Delta 1: \frac{3 \cdot 3}{2} = 4.5$

$\Delta 2: \frac{5 \cdot 2}{2} = 5$

$\Delta 3: \frac{5 \cdot 2}{2} = 5$

Area = 10.5

$25 - 4.5 = 20.5$

$20.5 - 5 = 15.5$

$15.5 - 5 = 10.5$

Rectangle: $4 \cdot 5 = 20$

$\Delta 1 = \frac{1 \cdot 4}{2} = 2$

$\Delta 2 = \frac{2 \cdot 4}{2} = 4$

$\Delta 3 = \frac{2 \cdot 5}{2} = 5$

Area = 9

$20 - 2 = 18$

$18 - 4 = 14$

$14 - 5 = 9$

Rectangle: $4 \cdot 5 = 20$

$\Delta 1: \frac{2 \cdot 4}{2} = 4$

$\Delta 2: \frac{3 \cdot 2}{2} = 3$

$\Delta 3: \frac{2 \cdot 5}{2} = 5$

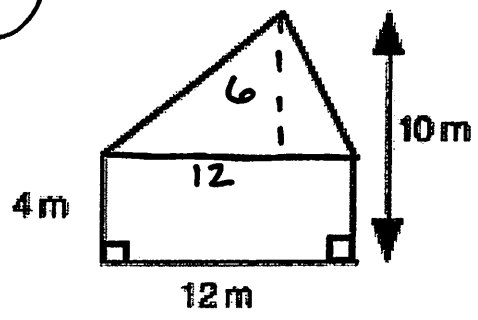
Area = 8

$20 - 4 = 16$

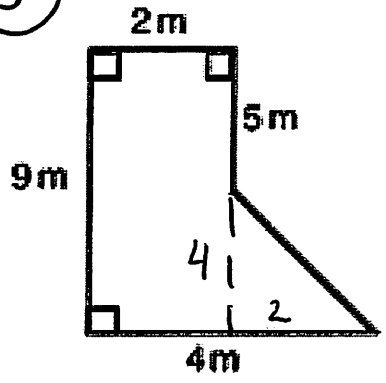
$16 - 3 = 13$

$13 - 5 = 8$

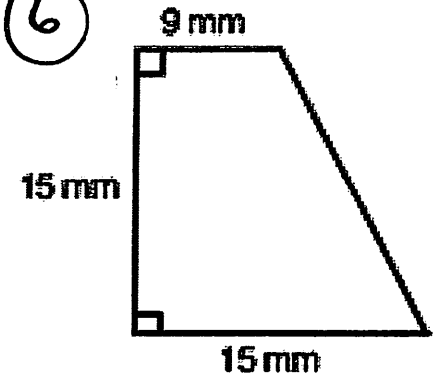
(4)



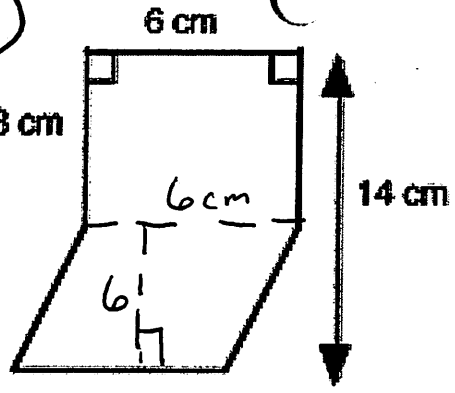
(5)



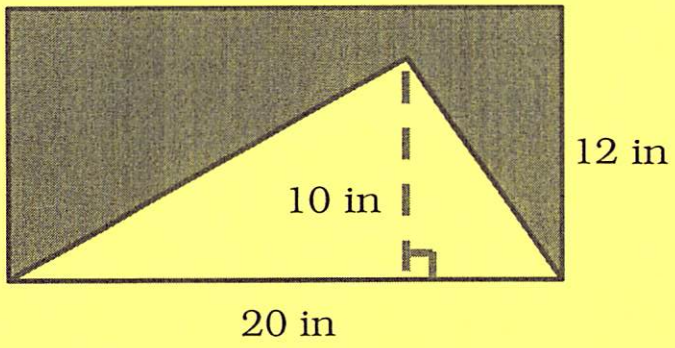
(6)



(7)



Triangle: $A = \frac{b \cdot h}{2}$ $A = \frac{12 \cdot 6}{2}$ $A = 36\ m^2$	Rectangle $A = b \cdot h$ $A = 2 \cdot 9$ $A = 18\ m^2$	Trapezoid $A = \frac{h \cdot (b_1 + b_2)}{2}$	Rectangle $A = b \cdot h$ $A = 6 \cdot 8$ $A = 48\ cm^2$
Rectangle $A = b \cdot h$ $A = 4 \cdot 12$ $A = 48\ m^2$	Triangle $A = \frac{b \cdot h}{2}$ $A = \frac{2 \cdot 4}{2}$ $A = 4\ m^2$	$A = \frac{15 \cdot (9 + 15)}{2}$ $A = \frac{15 \cdot 24}{2}$	Parallelogram $A = b \cdot h$ $A = 6 \cdot 6$ $A = 36\ cm^2$
Total Area $84\ m^2$	Total Area $22\ m^2$	$A = 180\ mm^2$	Total Area $84\ cm^2$



Entire Shape — Rectangle

$A = b \cdot h$ $A = 20 \cdot 12$

$A = 240 \text{ in}^2$

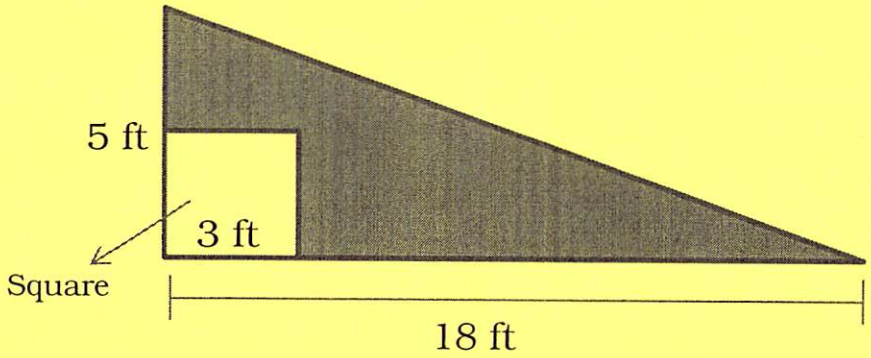
Cut out — Triangle

$A = \frac{b \cdot h}{2}$ $A = \frac{20 \cdot 10}{2}$

$A = 100 \text{ in}^2$

240 − 100

Shaded Area = 140 in^2



E.S. Triangle

$A = \frac{b \cdot h}{2} \rightarrow \frac{18 \cdot 5}{2} = 45 \text{ ft}^2$

C Square

$A = 3 \cdot 3 = 9 \text{ ft}^2$

45 − 9

Shaded Area 36 ft^2