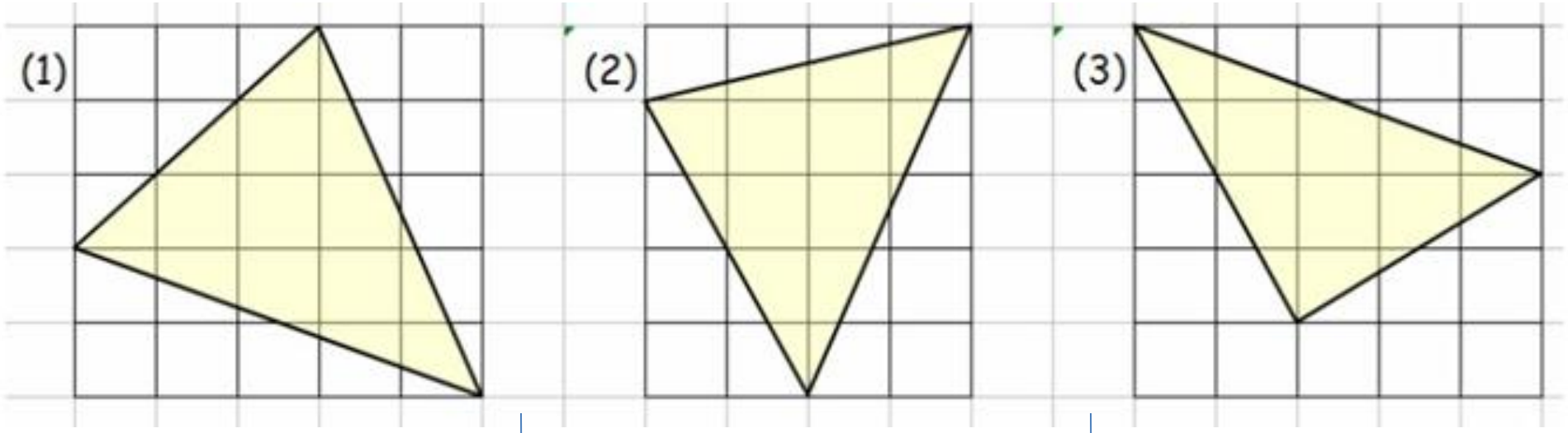
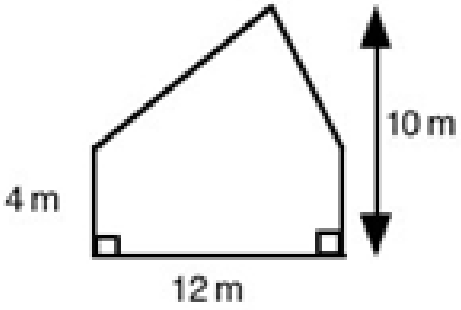
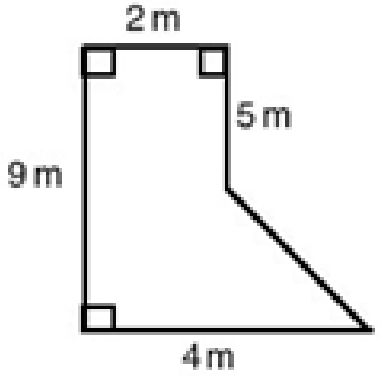
Area on Coordinate Plane and Composite Area

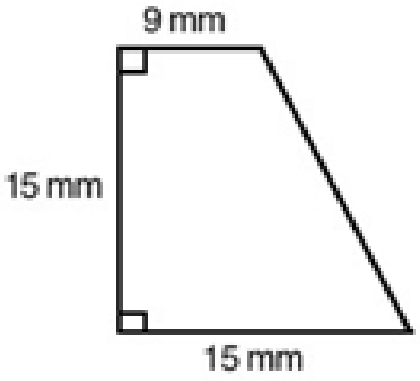
Name _____

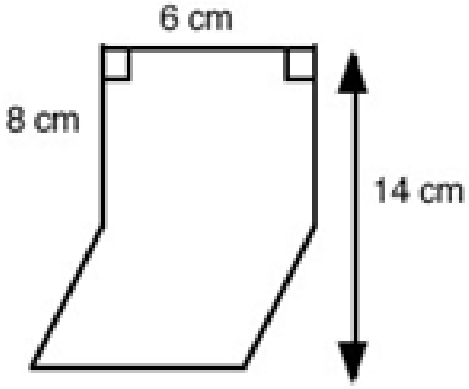


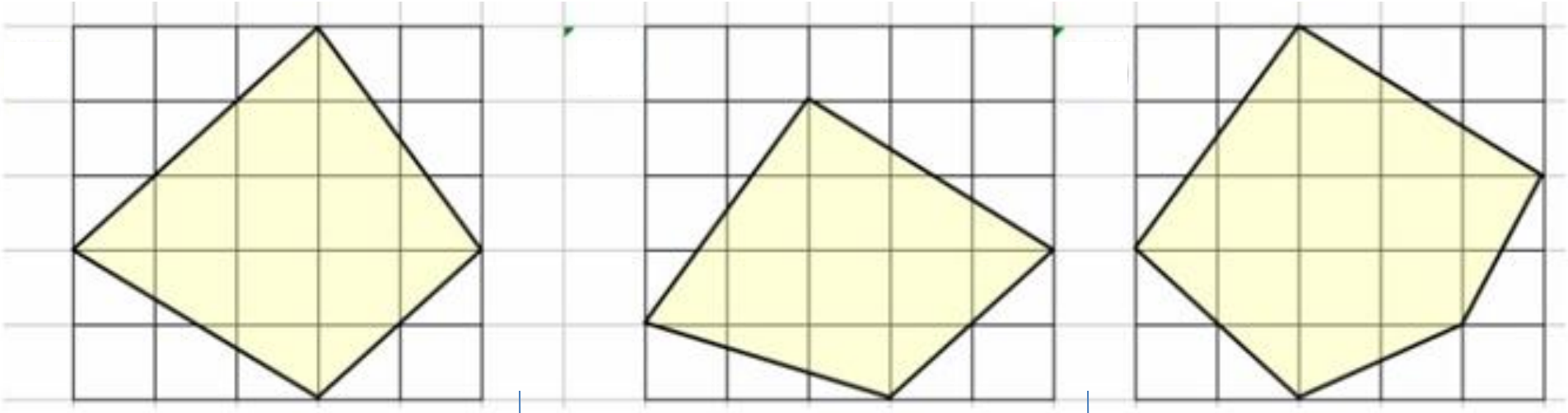
Show Work:


10 m
4 m
12 m

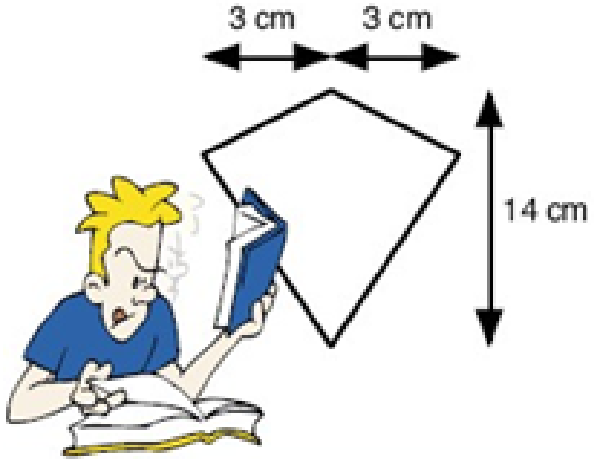

2 m
5 m
9 m
4 m

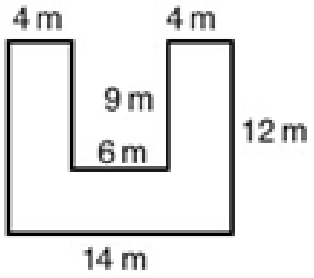

9 mm
15 mm
15 mm

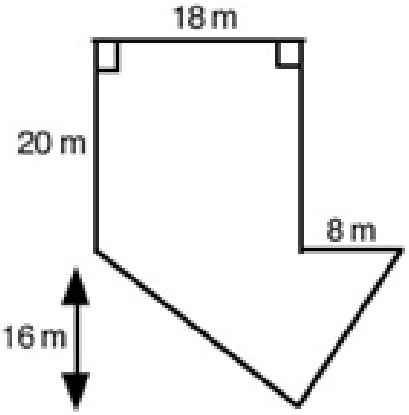

6 cm
8 cm
14 cm

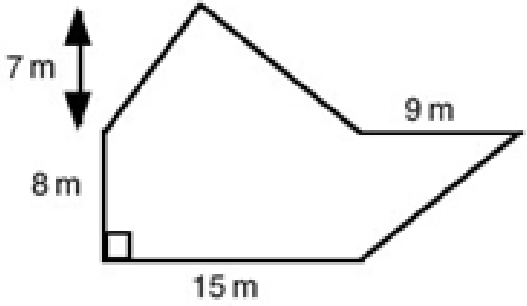


Show Work:


3 cm
3 cm
14 cm


4 m
4 m
9 m
6 m
12 m
14 m

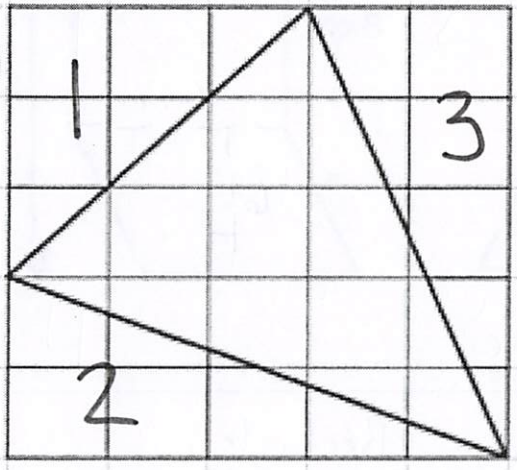

18 m
20 m
8 m
16 m


7 m
9 m
8 m
15 m

Area on Coordinate Plane and Composite Area

Name Key

(1)



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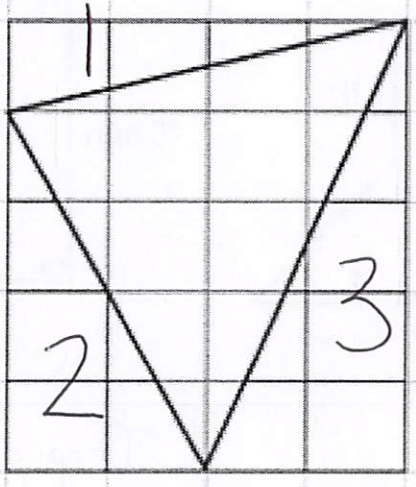
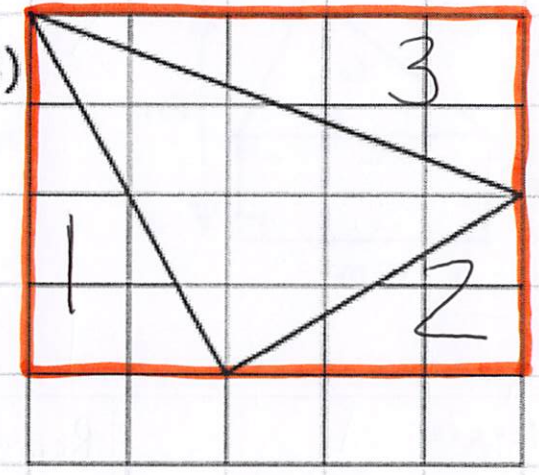


(3)



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: $4 \cdot 5 = 20$

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

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

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

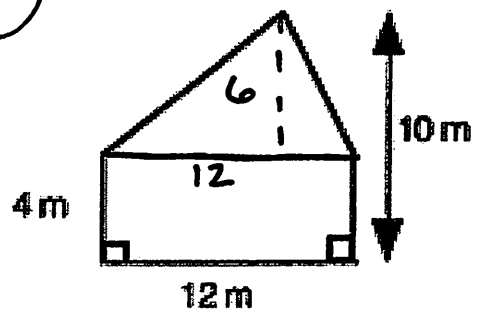
Area = 8

$20 - 4 = 16$

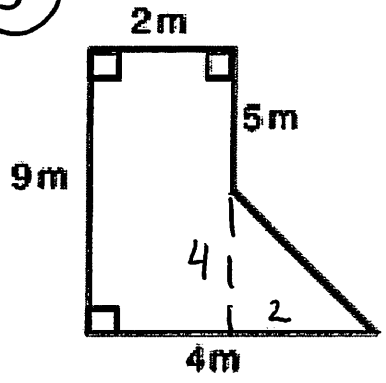
$16 - 3 = 13$

$13 - 5 = 8$

(4)



(5)



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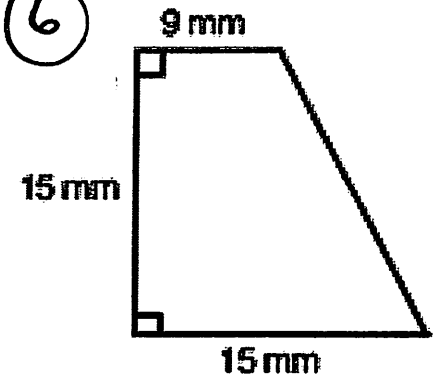

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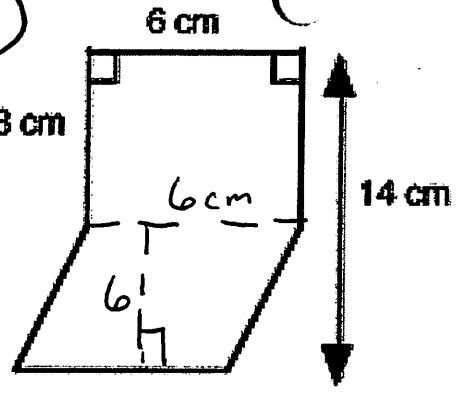
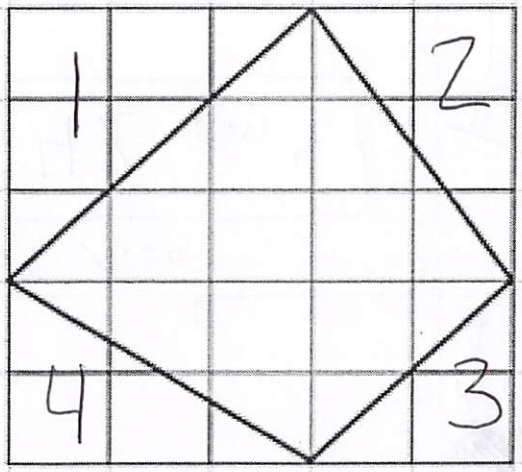


Triangle: $A = \frac{b \cdot h}{2}$ $A = \frac{12 \cdot 6}{2}$ $A = 36\ m^2$	Rectangle $A = b \cdot h$ $A = 2 \cdot 9$ $A = 18\ m^2$	Trapezoid $A = \frac{h \cdot (b_1 + b_2)}{2}$	Rectangle $A = b \cdot h$ $A = 6 \cdot 8$ $A = 48\ cm^2$
Rectangle $A = b \cdot h$ $A = 4 \cdot 12$ $A = 48\ m^2$	Triangle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

8



Show Work:

Square: $5 \cdot 5 = 25$

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

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

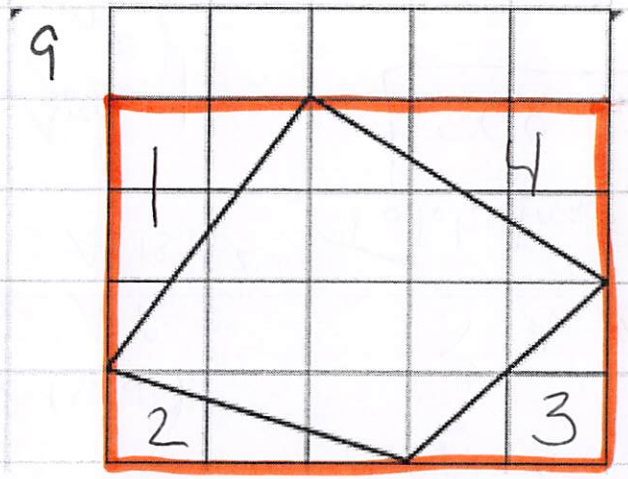
$\Delta 3: \frac{2 \cdot 2}{2} = 2$

$\Delta 4: \frac{3 \cdot 2}{2} = 3$

Area = 12.5

25
- 4.5
20.5
- 3
17.5
- 2
15.5
- 3
12.5

9



Rectangle: $5 \cdot 4 = 20$

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

$\Delta 2: \frac{3 \cdot 1}{2} = 1.5$

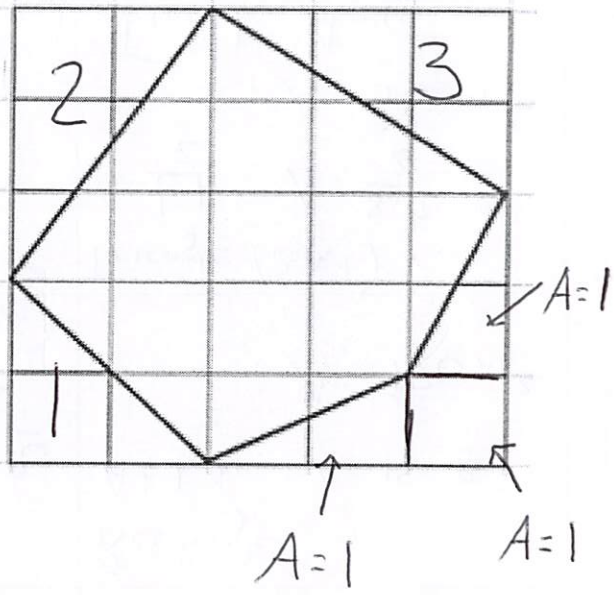
$\Delta 3: \frac{2 \cdot 2}{2} = 2$

$\Delta 4: \frac{3 \cdot 2}{2} = 3$

Area = 10.5

20
- 3
17
- 1.5
15.5
- 2
13.5
- 3
10.5

10



Square: $5 \cdot 5 = 25$

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

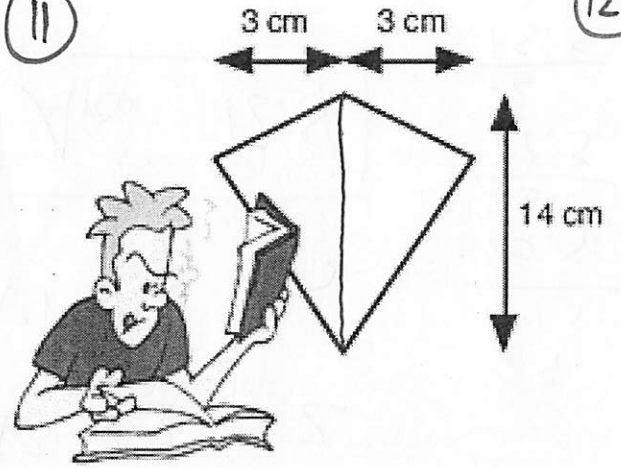
$\Delta 2: \frac{2 \cdot 3}{2} = 3$

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

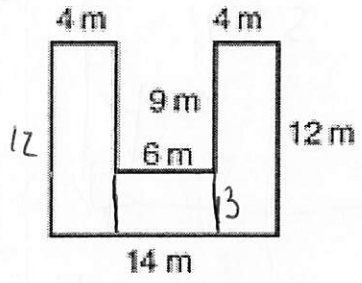
Area = 14

25
- 2
23
- 3
20
- 3
17
- 3
14

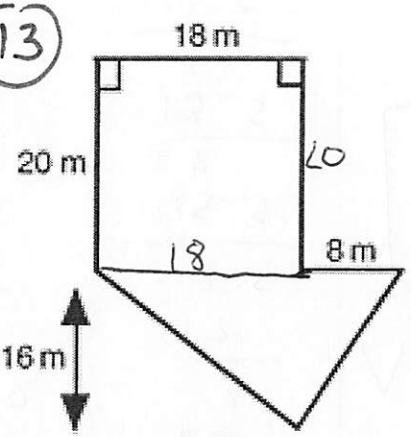
(11)



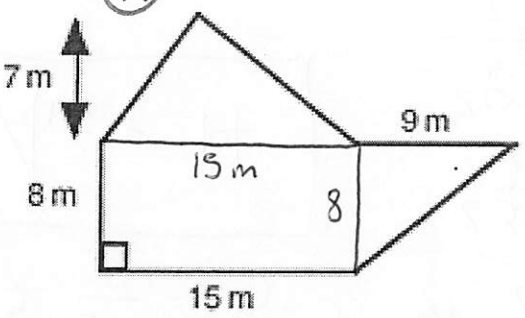
(12)



(13)



(14)



1

2 Triangles $A = \frac{b \cdot h}{2}$ $A = \frac{14 \cdot 3}{2}$ $A = 21\ cm^2$	2 Side Rectangles $A = b \cdot h$ $A = 4 \cdot 12$ $A = 48\ m^2$ x2	Rectangle $A = b \cdot h$ $A = 18 \cdot 20$ $A = 360\ m^2$	Triangle (Top) $A = \frac{b \cdot h}{2}$ $A = \frac{15 \cdot 7}{2}$ $A = 52.5\ m^2$
x2	$A = 96\ m^2$ Rectangle (Small) $A = b \cdot h$ $A = 6 \cdot 3$	Triangle $A = \frac{b \cdot h}{2}$ $A = \frac{26 \cdot 16}{2}$ $A = 208\ m^2$	Rectangle $A = b \cdot h$ $A = 15 \cdot 8$ $A = 120\ m^2$
Total Area $42\ cm^2$	$A = 18\ m^2$ Total Area $114\ m^2$	Total Area $568\ m^2$	Triangle (Right) $A = \frac{b \cdot h}{2}$ $A = \frac{8 \cdot 9}{2}$ $A = 36\ m^2$ Total Area

$208.5\ m^2$