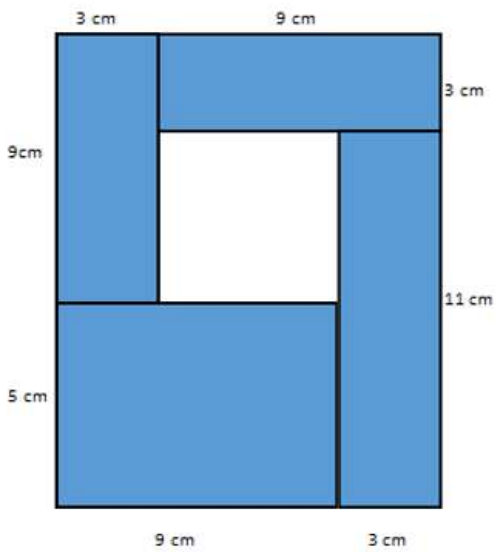
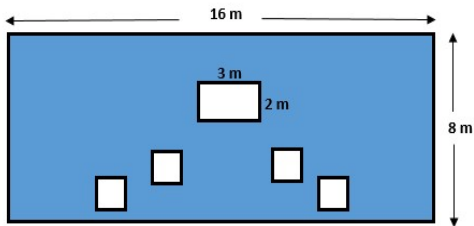


Composite Area Problems Worksheets

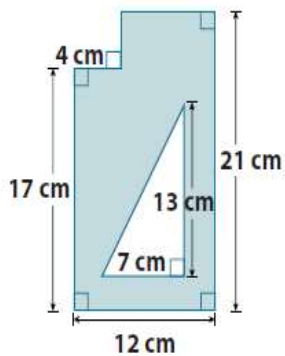
1. The figure is formed by five rectangles. Find the area of the unshaded rectangular region.



2. The smaller squares in the shaded region each have side lengths of 1.5 m . Find the area of the shaded region.

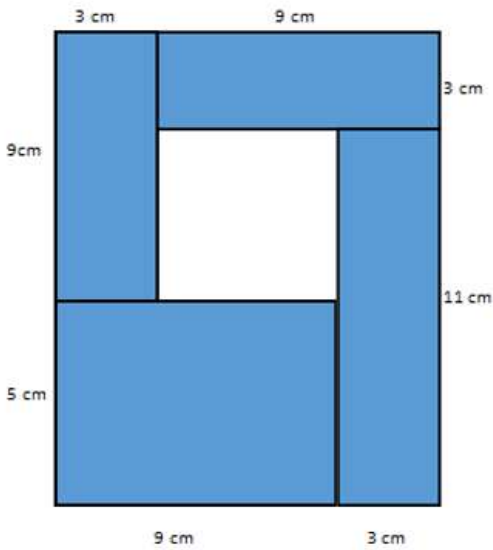


3. Find the area of the shaded region.



Composite Area Problems Worksheets

1. The figure is formed by five rectangles. Find the area of the unshaded rectangular region.



Area of the whole rectangle – area of the sum of the shaded rectangles

$$(12 \text{ cm} \times 14 \text{ cm}) - (2(3 \text{ cm} \times 9 \text{ cm}) + (11 \text{ cm} \times 3 \text{ cm}) + (5 \text{ cm} \times 9 \text{ cm}))$$

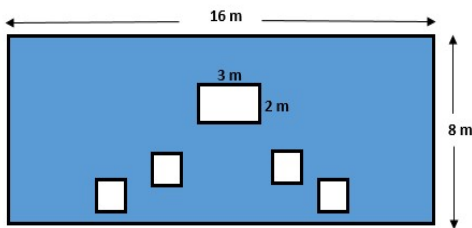
$$168 \text{ cm}^2 - (54 \text{ cm}^2 + 33 \text{ cm}^2 + 45 \text{ cm}^2)$$

$$168 \text{ cm}^2 - 132 \text{ cm}^2$$

$$36 \text{ cm}^2$$

The area is 36 cm².

2. The smaller squares in the shaded region each have side lengths of 1.5 m. Find the area of the shaded region.



Area of the 16 m by 8 m rectangle – the sum of the area of the smaller unshaded rectangles

$$(16 \text{ m} \times 8 \text{ m}) - ((3 \text{ m} \times 2 \text{ m}) + (4(1.5 \text{ m} \times 1.5 \text{ m})))$$

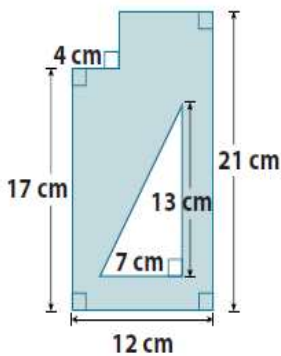
$$128 \text{ m}^2 - (6 \text{ m}^2 + 4(2.25 \text{ m}^2))$$

$$128 \text{ m}^2 - 15 \text{ m}^2$$

$$113 \text{ m}^2$$

The area is 113 m².

3. Find the area of the shaded region.



Area of the sum of the rectangles – area of the right triangle

$$((17 \text{ cm} \times 4 \text{ cm}) + (21 \text{ cm} \times 8 \text{ cm}))$$

$$- \left(\left(\frac{1}{2} \right) (13 \text{ cm} \times 7 \text{ cm}) \right)$$

$$(68 \text{ cm}^2 + 168 \text{ cm}^2) - \left(\frac{1}{2} \right) (91 \text{ cm}^2)$$

$$236 \text{ cm}^2 - 45.5 \text{ cm}^2$$

$$190.5 \text{ cm}^2$$

The area is 190.5 cm².

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