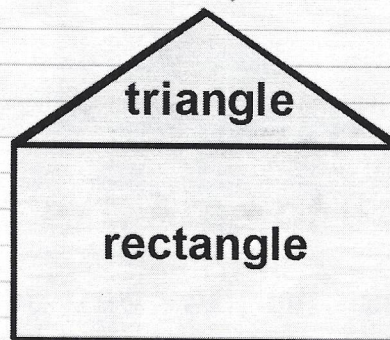


Chapter 4**Area of Polygons**

Date

Lesson 4.3 ext. Area of Composite Figures**Essential Question****How can you use your knowledge of area to find the area of composite figures?****Vocab**

A composite figure is a shape that is made up of triangles, squares, rectangles and other two-dimensional figures.

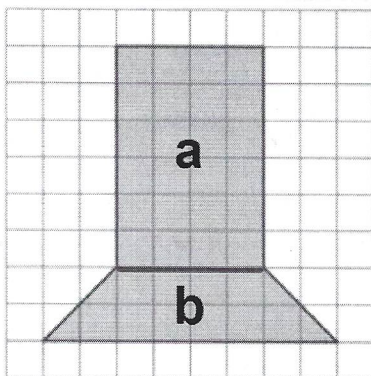
Example

Composition Book

4.3 ext. Area of Composite Figures

Find the area of each composite figure.

1)



a) $A = lw$

$$A = 6(4)$$

$$A = 24 \text{ un.}^2$$

b) $A = \frac{1}{2}h(b_1 + b_2)$

$$A = \frac{1}{2} \cdot 2(4 + 8)$$

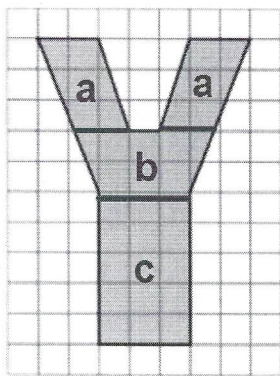
$$A = \frac{1}{2} \cdot 2(12)$$

$$A = 12 \text{ in.}^2$$

Area of composite figure is $24 + 12 = 36 \text{ un.}^2$

Find the area of each composite figure.

2)



a) $A = bh$

$$A = 3(2)$$

$$A = 6 \text{ un.}^2$$

b) $A = \frac{1}{2}h(b_1 + b_2)$

$$A = \frac{1}{2} \cdot 2(3 + 5)$$

$$A = \frac{1}{2} \cdot 2(8)$$

$$A = 8 \text{ un.}^2$$

c) $A = lw$

$$A = 5(3)$$

$$A = 15 \text{ un.}^2$$

The area of the composite figure is

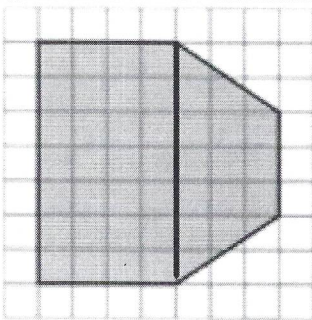
$$a + a + b + c$$

$$6 + 6 + 8 + 15$$

$$35 \text{ un.}^2$$

Complete numbers 1 and 2 on your notes page.

1)



$$A = lw$$

$$A = 7(4)$$

$$A = 28 \text{ un.}^2$$

$$A = \frac{1}{2}h(b_1 + b_2)$$

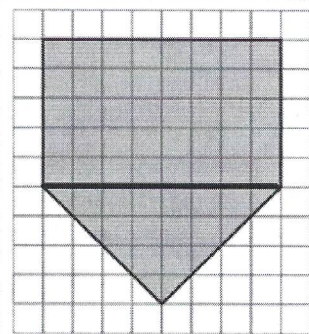
$$A = \frac{1}{2}(3)(3 + 7)$$

$$A = 15 \text{ un.}^2$$

The area of the composite figure is

$$28 + 15 = 43 \text{ un.}^2$$

2)



$$A = lw$$

$$A = 5(8)$$

$$A = 40 \text{ un.}^2$$

$$A = \frac{1}{2}(b)h$$

$$A = \frac{1}{2}(8)4$$

$$A = 16 \text{ un.}^2$$

The area of the composite figure is

$$40 + 16 = 56 \text{ un.}^2$$