

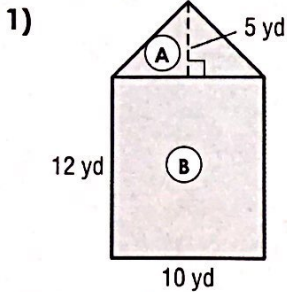
# Math 6 - Unit 5: Area & Volume

## Composite Area Practice

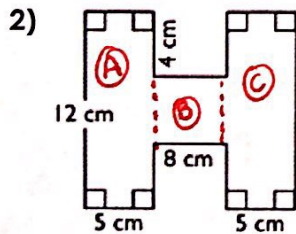
Name: KEY

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Find the area of each figure. Round to the nearest tenth if necessary.



	Area <sub>A</sub>	Area <sub>B</sub>
Name of Shape	TRIANGLE	RECTANGLE
Formula	$A = \frac{1}{2} b \cdot h$	$A = b \cdot h$
Substitution	$A = \frac{1}{2} (10)(5)$ $A = 5(5)$	$A = 12 \cdot 10$
Solution (with Units)	$A = 25 \text{ yd}^2$	$A = 120 \text{ yd}^2$
Total Area (with units):		$A = 25 + 120 = 145 \text{ yd}^2$



Break the figure above into three pieces and label them, A, B & C. Then complete the chart to find the total area.

	Area <sub>A</sub>	Area <sub>B</sub>	Area <sub>C</sub>
Name of Shape	Rectangle	Rectangle	Rectangle
Formula	$A = b \cdot h$	$A = b \cdot h$	$A = b \cdot h$
Substitution	$A = 5 \cdot 12$	$A = 8 \cdot 4$	$A = 5 \cdot 12$
Solution (with Units)	$A = 60 \text{ cm}^2$	$A = 32 \text{ cm}^2$	$A = 60 \text{ cm}^2$
Total Area (with units):			$A = 60 + 32 + 60$ $A = 152 \text{ cm}^2$

3) 
  
 (A)  $A = bh$   
 $A = 2 \cdot 9$   
 $A = 18 \text{ m}^2$   
 (B)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(2)(4)$   
 $A = 1(4)$   
 $A = 4 \text{ m}^2$   
 $A = 18 + 4$   
 $A = 22 \text{ m}^2$

4) 
  
 (A)  $A = bh$   
 $A = 7.8(9.3)$   
 $A = 72.54 \text{ mm}^2$   
 (B)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(7.8)(3)$   
 $A = 11.7 \text{ mm}^2$   
 $A_T = 72.54 - 11.7$   
 $A = 60.84 \text{ mm}^2$

5) 
  
 (A)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(9)(4)$   
 $A = 2(9)$   
 $A = 18 \text{ in}^2$   
 (B)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(9)(4)$   
 $A = 2(9)$   
 $A = 18 \text{ in}^2$   
 $A = 18 + 18$   
 $A = 36 \text{ in}^2$

6) 
  
 (A)  $A = h\left(\frac{b_1 + b_2}{2}\right)$   
 $A = 13\left(\frac{28 + 35}{2}\right)$   
 $A = 409.5 \text{ mm}^2$   
 (B)  $A = h\left(\frac{b_1 + b_2}{2}\right)$   
 $A = 28\left(\frac{35 + 25}{2}\right)$   
 $A = 28(30)$   
 $A = 840 \text{ mm}^2$   
 $A = 409.5 + 840$   
 $A = 1,249.5 \text{ mm}^2$

7) 
  
 (A)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(3)(2)$   
 $A = 1(3)$   
 $A = 3 \text{ in}^2$   
 (B)  $A = bh$   
 $A = 7(3)$   
 $A = 21 \text{ in}^2$   
 (C)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(3)(2)$   
 $A = 1(3)$   
 $A = 3 \text{ in}^2$   
 $A = 21 - 3 - 3$   
 $A = 15 \text{ in}^2$

8) 
  
 (A)  $A = bh$   
 $A = 8(2.1)$   
 $A = 16.8 \text{ yd}^2$   
 (B)  $A = bh$   
 $A = 3.2(4.3)$   
 $A = 13.76 \text{ yd}^2$   
 $A = 16.8 + 13.76$   
 $A = 30.56 \text{ yd}^2$

9) 
  
 (A)  $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(15)(7)$   
 $A = 52.5 \text{ m}^2$   
 (B)  $A = h\left(\frac{b_1 + b_2}{2}\right)$   
 $A = 8\left(\frac{15 + 24}{2}\right)$   
 $A = 156 \text{ m}^2$   
 $A = 156 + 52.5$   
 $A = 208.5 \text{ m}^2$

10) 
  
 (A)  $A = bh$   
 $A = 6(8)$   
 $A = 48 \text{ cm}^2$   
 (B)  $A = bh$   
 $A = 6(6)$   
 $A = 36 \text{ cm}^2$   
 $A = 48 + 36$   
 $A = 84 \text{ cm}^2$