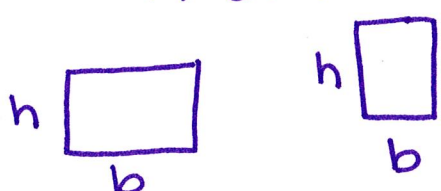

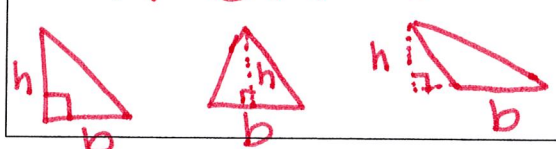
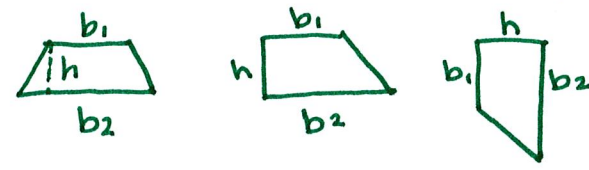


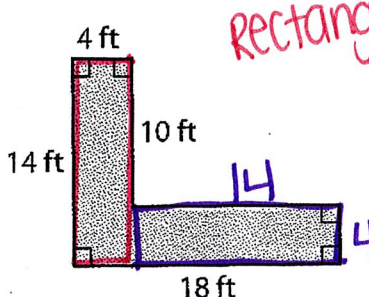
### 4.3 Extension Area of Composite Figures Notes

Area Formulas:

<p>Rectangle: <math>A = bh</math></p> 	<p>Parallelogram: <math>A = bh</math></p> 
<p>Triangle: <math>A = \frac{1}{2}bh</math> <math>A = bh \div 2</math></p> 	<p>Trapezoid: <math>A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)</math></p> 

A composite figure is made up of triangles, squares, rectangles, trapezoids, and other two dimensional figures.

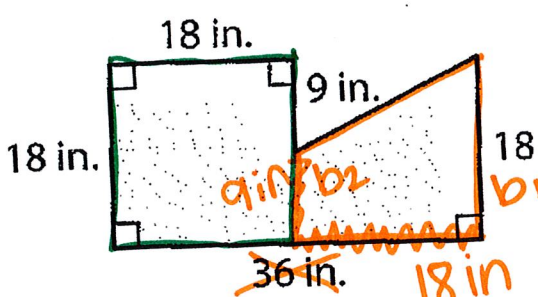
Find the area of the composite figures. There may be multiple ways to break up composite figures to find the area. Be sure to show your formulas, substitution, & answer with label!



Rectangle  $A = bh$   
 $A = 4 \cdot 14$   
 $A = 56 \text{ ft}^2$

Rectangle  $A = bh$   
 $A = 14 \cdot 4$   
 $A = 56 \text{ ft}^2$

$56$   
 $+ 56$   
 $112 \text{ ft}^2$

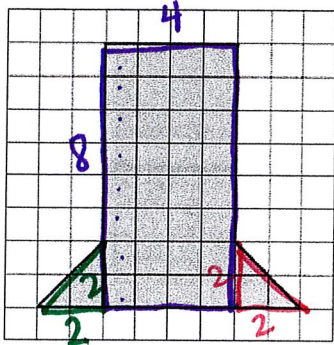


Rectangle  $A = bh$   
 $A = 18 \cdot 18$   
 $A = 324 \text{ in}^2$

Trapezoid  $A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$   
 $A = \frac{1}{2} \cdot 18 \cdot (18 + 9)$   
 $A = \frac{1}{2} \cdot 18 \cdot 27$   
 $A = 243 \text{ in}^2$

$324 + 243 = 567 \text{ in}^2$

Find the area of the composite figures. There may be multiple ways to break up composite figures to find the area. Be sure to show your formulas, substitution, & answer with label

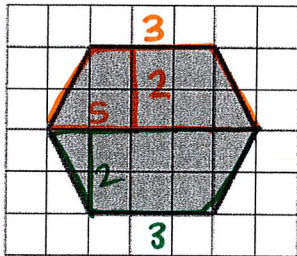


Triangle  
 $bh \div 2$   
 $2 \cdot 2 \div 2$   
 (2)

rectangle  
 $bh$   
 $4 \cdot 8$   
 (32)

Triangle  
 $bh \div 2$   
 $2 \cdot 2 \div 2$   
 (2)

Total =  $2 + 32 + 2 =$   
 (36 units<sup>2</sup>)

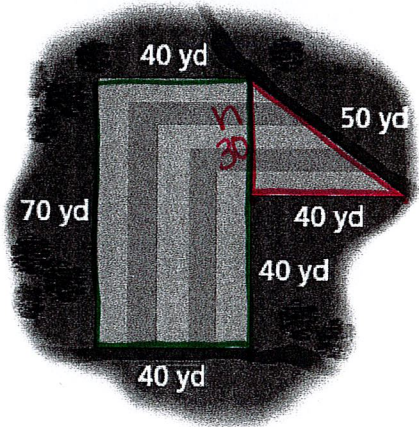


Trapezoid  
 $A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$   
 $A = \frac{1}{2} \cdot 2 \cdot (5 + 3)$   
 $A = \frac{1}{2} \cdot 2 \cdot 8$   
 (A = 8 units<sup>2</sup>)

Trapezoid  
 $A = \frac{1}{2} \cdot h \cdot (b_1 + b_2)$   
 $A = \frac{1}{2} \cdot 2 \cdot (3 + 5)$   
 $A = \frac{1}{2} \cdot 2 \cdot 8$   
 (A = 8 units<sup>2</sup>)

Total:  
 $8 + 8 =$   
 (16 units<sup>2</sup>)

Find the area of the fairway between two streams on a golf course. Be sure to show your formulas, substitution, & answer with label



Triangle  
 $bh \div 2$   
 $40 \cdot 30 \div 2$   
 (600)

Rectangle  
 $bh$   
 $40 \cdot 70$   
 (2800)

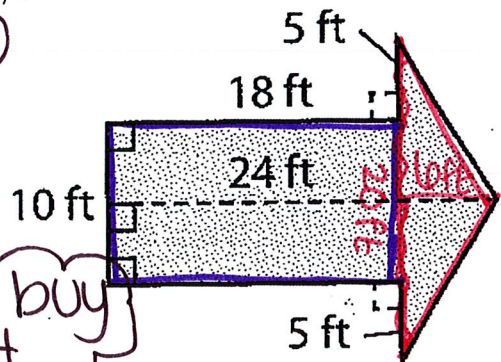
Total:  
 $2800$   
 $+ 600$   
 (3400 yd<sup>2</sup>)

Connor is painting a giant arrow on the playground. Find the area of the giant arrow. If one can of paint covers 100 square feet, how many cans should Connor buy?

Rectangle  
 $bh$   
 $18 \cdot 10$   
 (180)

Triangle  
 $bh \div 2$   
 $20 \cdot 6 \div 2$   
 (60)

Total =  $180 + 60$   
 (240 ft<sup>2</sup>)  
 $240 \div 100 = 2.4$



Connor should buy  
 (3 cans of paint)