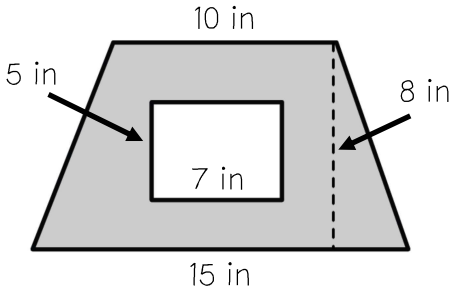
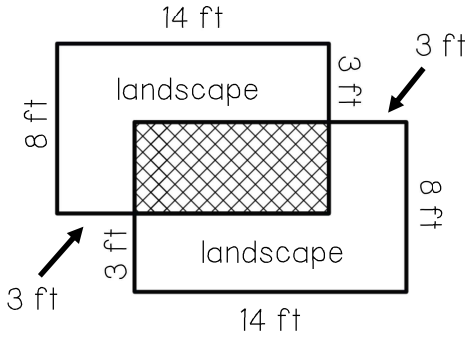
Use your understanding of composite figures to answer the questions below.

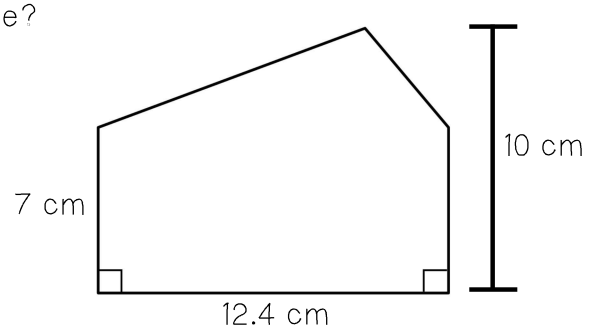
1. A rectangle is inscribed in a trapezoid. Determine the area of the shaded region.



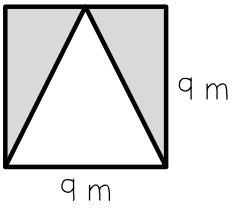
2. A patio is being landscaped with trees and shrubs. How many square feet of landscaping will be around the patio?



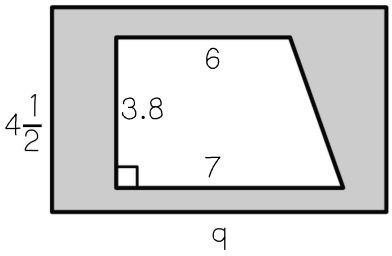
3. A composite figure is created using a rectangle and triangle. What is the area of the figure?



4. Find the area of the shaded region.



5. A trapezoid is inscribed in a rectangle. Amar and Gabby both found the area of the shaded region. Circle the name of student who correctly calculated the area. Explain the other student's mistake.



AMAR

$(9)(4\frac{1}{2}) + (\frac{1}{2})(6+7)(3.8)$

$40.5 + 24.7$

65.2 units^2

GABBY

$(9)(4\frac{1}{2}) - (\frac{1}{2})(6+7)(3.8)$

$40.5 - 24.7$

15.8 units^2

Summarize today's lesson:

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Unit: Geometry
Homework 3

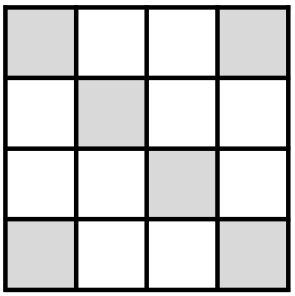
Name _____

Date _____ Pd _____

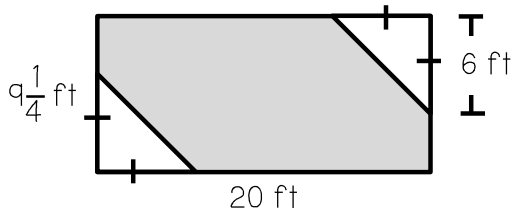
AREA OF COMPOSITE FIGURES

Answer the questions below. Be sure to show your thinking.

1. A 2 ft by 2 ft square is divided into smaller squares and portions are shaded. What is the area of the shaded portion?



2. A garden is sodded in the shaded portion below. How many square feet were covered with sod?



Use the composite figures below to mark each statement as true or false. Justify your choices.

3.

FIGURE A

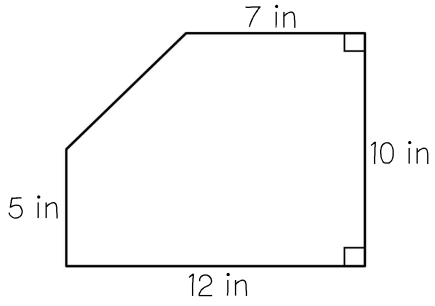
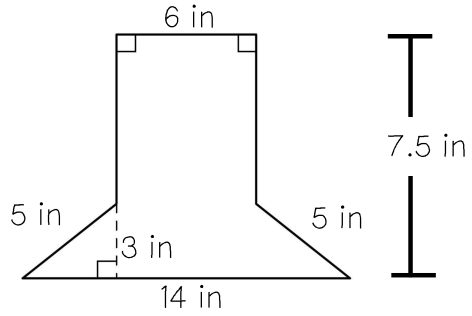


FIGURE B



STATEMENT	T/F?	JUSTIFY
a. The area of figure A can be found by finding the area of a trapezoid.		
b. The area of figure B can be found by decomposing the figure into a rectangle and trapezoid.		
c. Figure B has a total area of 75 in^2.		
d. The area of figure A is 50.5 in^2 more than the area of figure B.		

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