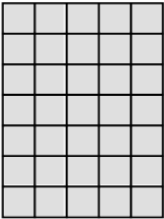
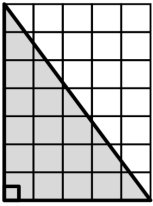
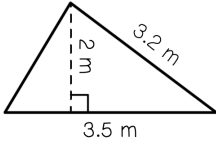
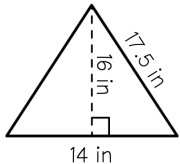


Unit 9 Triangles and Trapezoids

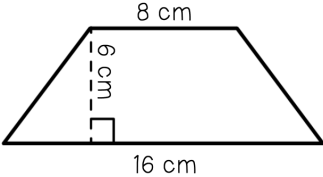
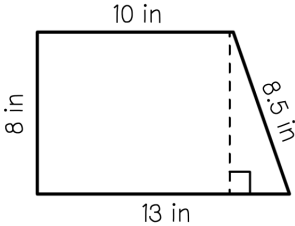
Unit 9 Geometry
Day 8 / 6.8(B), 6.8(C)

Name _____
Date _____ Period _____

Two different figures are shown below, a rectangle and a triangle. If the formula for the area of a rectangle is $A = b \cdot h$, what would you predict the formula for the area of a triangle to be?

RECTANGLE 1	TRIANGLE 1	TRIANGLE 2	TRIANGLE 3
			
Formula: _____	Formula: _____	Formula: _____	Formula: _____
Plug in Values: _____	Plug in Values: _____	Plug in Values: _____	Plug in Values: _____
Area: _____	Area: _____	Area: _____	Area: _____

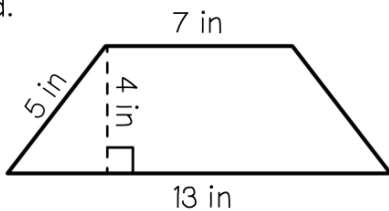
Decompose
(take apart)
the trapezoids
to the right
into familiar
shapes. Then,
find the area
of each
trapezoid.

TRAPEZOID 1	TRAPEZOID 2
	

AREA OF TRAPEZOIDS

- A trapezoid is one or two _____ and a _____ combined.
- To find the area, use the formula _____, where:
 - b_1 is the _____
 - b_2 is the _____ and
 - h is the _____ of the trapezoid.

1. Use a formula to determine the area of the trapezoid.

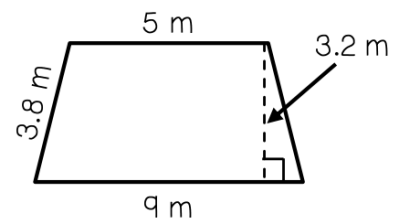


Formula: _____

Plug in Values: _____

Area: _____

2. Use a formula to determine the area of the trapezoid.



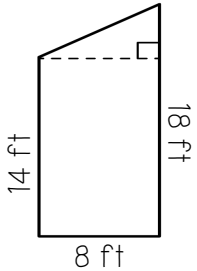
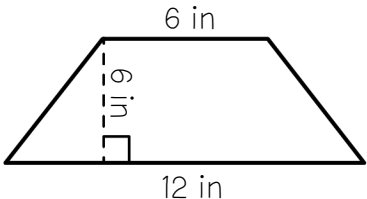
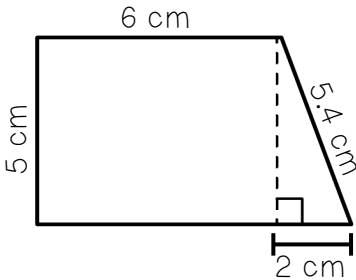
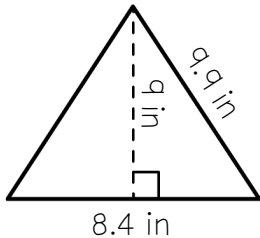
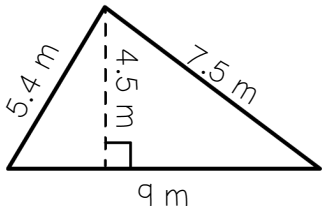
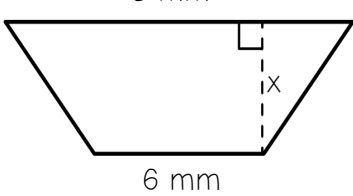
Formula: _____

Plug in Values: _____

Area: _____

AREA OF TRIANGLES AND TRAPEZOIDS

Match each correct answer to a letter and complete the riddle below. Not all choices will be used.

<p>1</p> <p>Find the area of a right triangle with a height of $8\frac{1}{2}$ feet and a base of 15 feet.</p>	<p>5</p> <p>Find the area of the trapezoid at the right by decomposing it into familiar shapes.</p> 
<p>2</p> <p>What is the area of the trapezoid?</p> 	<p>6</p> <p>A triangle has an area of 42 cm^2. The height of the triangle is 14 centimeters. What is the length of the base of the triangle?</p>
<p>3</p> <p>Find the area of the trapezoid at the right.</p> 	<p>7</p> <p>What is the area of the triangle?</p> 
<p>4</p> <p>Find the area of the triangle below.</p> 	<p>8</p> <p>A trapezoid has an area of 35 mm^2. What is the height of the trapezoid?</p> 

L: 36	A: 5	F: 12.15	H: 56	R: 37.8	I: 127.5
S: 50.4	C: 12	U: 20.25	N: 35	P: 108	A: 128
R: 63.75	Q: 3	W: 35.4	E: 6	G: 54	T: 24

WHAT DO GEOMETRY TEACHERS HAVE DECORATING THEIR FLOORS?

5 3 8 1 6 8 7 4 2