Name _____ Units _____ Date _____

Math 6th: Unit 8 Geometry Study Guide

1.) Find the **area**.

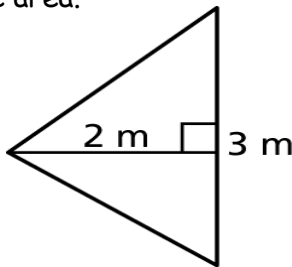14 m / 12 m
12 m
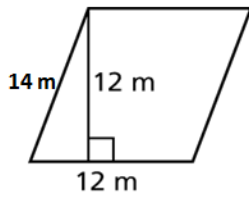
1.) _____

2.) A parallelogram has a base of 15 yards and a height of 2.5 yards. Find the area of the parallelogram.

2.) _____

3.) The base of a parallelogram is 6 yards and the area is 48 square yards.
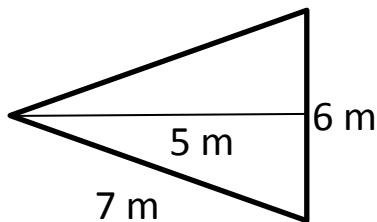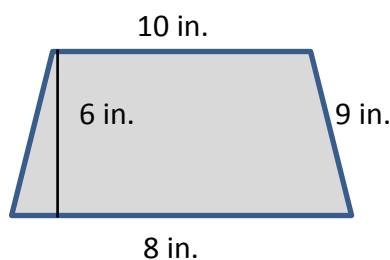What is the height?

3.) _____

4.) Find the area.

2 m   3 m

4.) _____

5.) Describe and correct the error in finding the area of the triangle.

6 m $A = \frac{1}{2}(7)(6)(5)$
5 m
7 m $= 210 \text{ m}^2$

_____

_____

6.) Find the area.

10 in.

6 in.   9 in.

8 in.

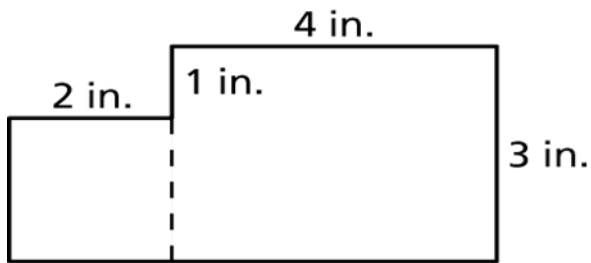6.) _____

7.) Find the area of the a trapezoid with the following measurements:
   Base 1: 5 feet
   Base 2: 3 feet
   Height: 5 feet

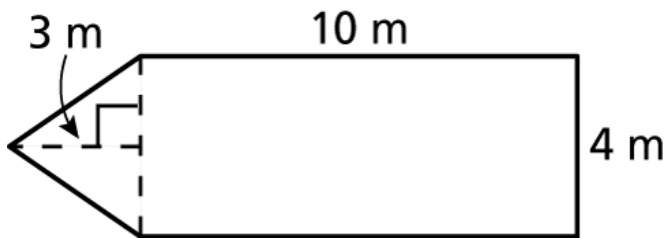7.) _____

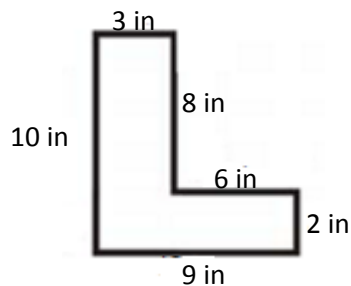8.) Find the total **area** of the complex figure below.

4 in.

2 in.   1 in.

3 in.

8.)Total Area: _____

9.) Find the total **area** of the complex figure below.

3 m   10 m

4 m

9.)Total Area: _____

10.)   Find the total **area** of the complex figure below.
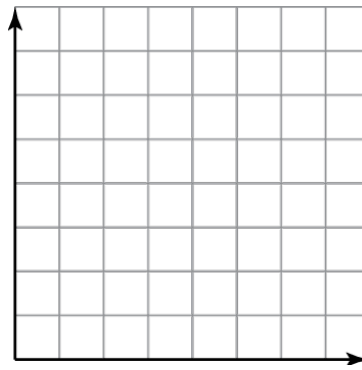
3 in

8 in

10 in

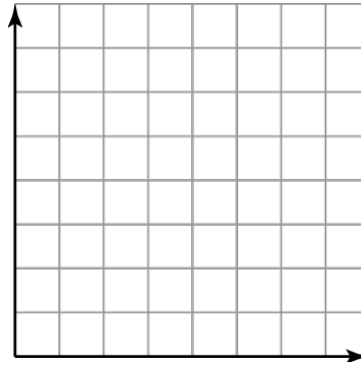6 in

2 in

9 in

10.)Total Area: _____

11.) Plot the following ordered pairs:

   H(3, 2), I(5, 2), J(5, 7), K(3, 7)

Find the perimeter of the polygon.

_____

12.) Plot the following ordered pairs:

   D(1, 5), E(4, 5), F(5, 3), G(2, 3)

Find the area of the polygon.

_____

Answer Key:

1.) 144m²	2.) 37.5 yd²	3.) 8 yd	4.) 3 m²
5.) Answer = 15m²; Don't use the diagonal height			
6.) 54 in²	7.) 20 ft²	8.) 16 in²	9.) 46 m²
10.) 42 in²	11.) 14 units		12.) 6 units²