

Today I am going to pay attention during the lesson and ask questions if I do not understand !

Today I need:

- Pencil
- Notebook
- Homework
- Class note Sheet (I will pass out)



7.G.6

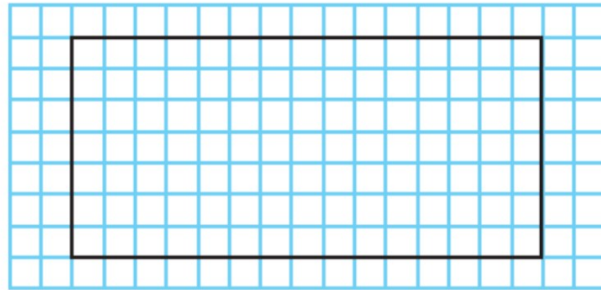
I can find the area of compound figures.

Finding Area

The **area** of a plane figure is the measure of the region enclosed by the figure. You measure the area of a figure by counting the number of square units that you can arrange to fill the figure completely.

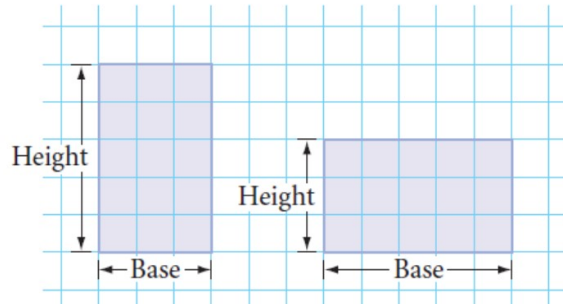
$\underline{1}$
Length: 1 unit

$\begin{array}{c} 1 \\ \square \\ 1 \end{array}$
Area: 1 square unit

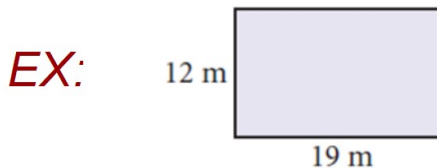


Areas of Rectangles and Parallelograms

Any side of a rectangle can be called a **base**. A rectangle's **height** is the length of the side that is perpendicular to the base. For each pair of parallel bases, there is a corresponding height.

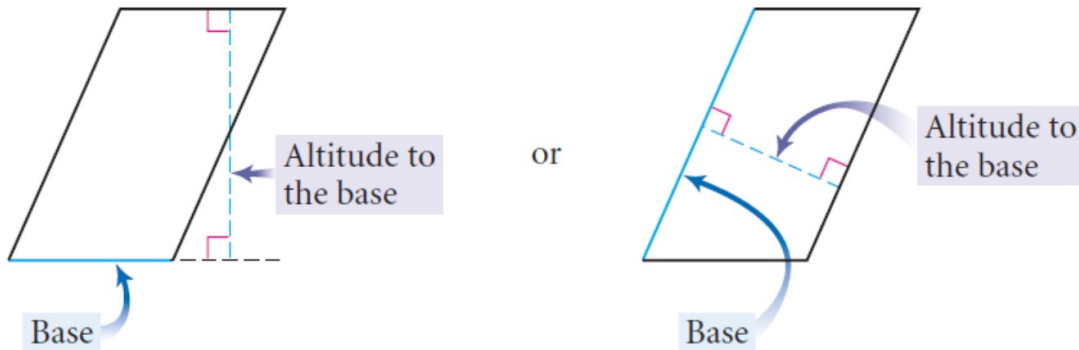


Rectangle Area = _____



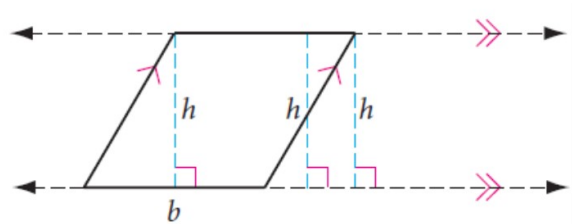
Areas of Rectangles and Parallelograms

Just as with a rectangle, any side of a parallelogram can be called a base. But the height of a parallelogram is not necessarily the length of a side. An **altitude** is any segment from one side of a parallelogram perpendicular to a line through the opposite side. The length of the altitude is the **height**.

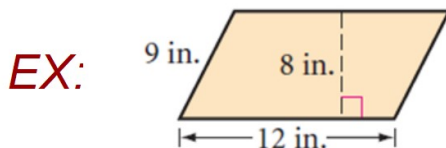


Areas of Rectangles and Parallelograms

The altitude can be inside or outside the parallelogram. No matter where you draw the altitude to a base, its height should be the same, because the opposite sides are parallel.

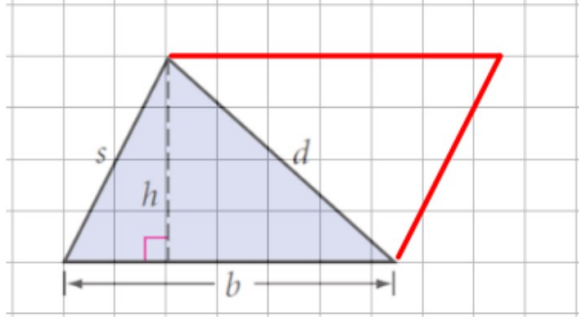


Parallelogram Area = _____

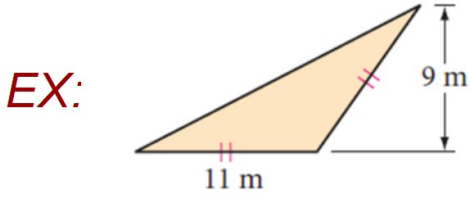


Area of a Triangle

A triangle can be thought of as half a rectangle or parallelogram.



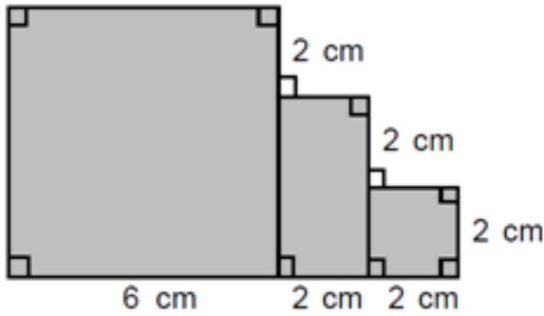
Triangle Area = _____



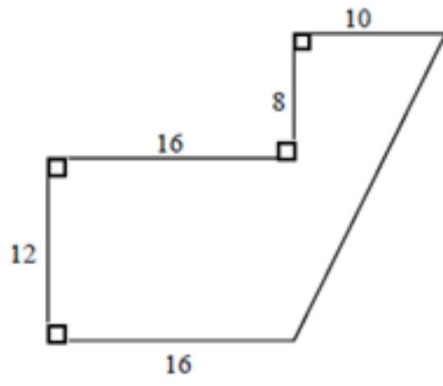
Area of Compound Figures

Find the area of the figures below by using the necessary area formulas. Show all work.

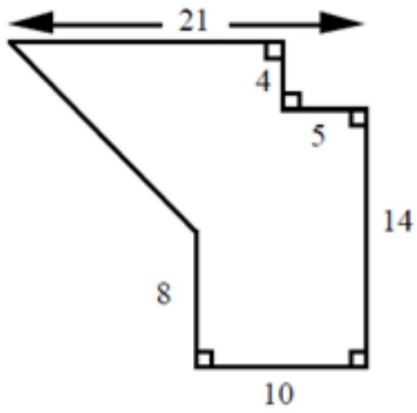
1.



2.

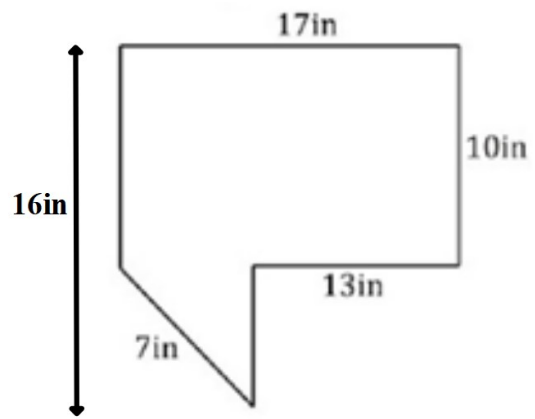


3.

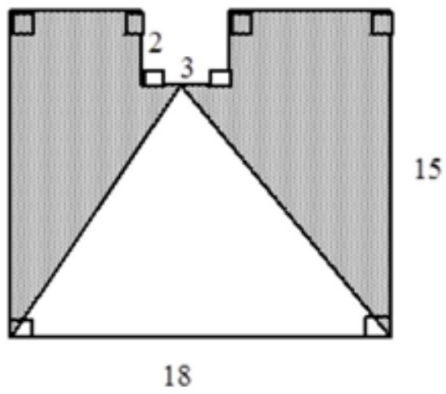


How would you find the area of this figure

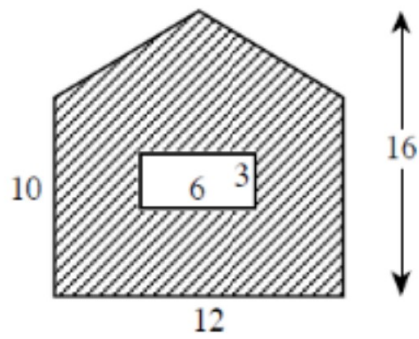
4.



5. Find the area of the shaded region



6. Find the area of the shaded region



Homework:

**Area of Compound Figures
worksheet**

