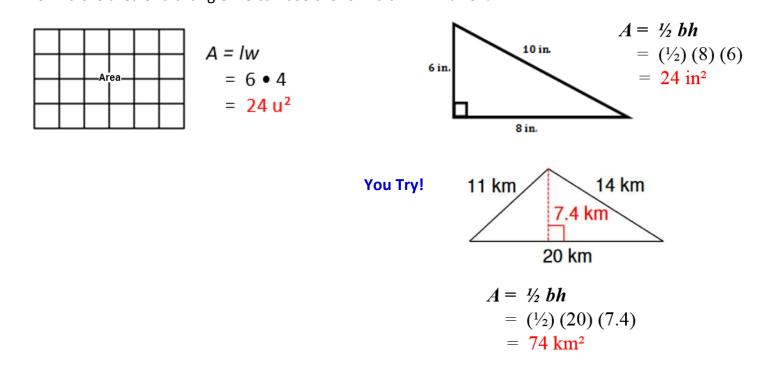
Student Notes

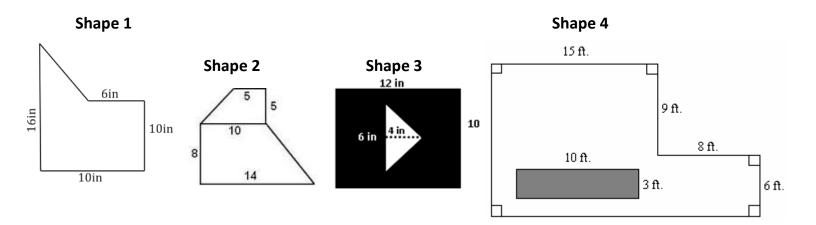
SETION 1: Area of Rectangles and a Triangle

To find the area of a rectangle use A = bh or A = lw. To find the area of a triangle we can use the formula: $A = \frac{l}{2}bh$



SETION 2: What are Complex Figures?

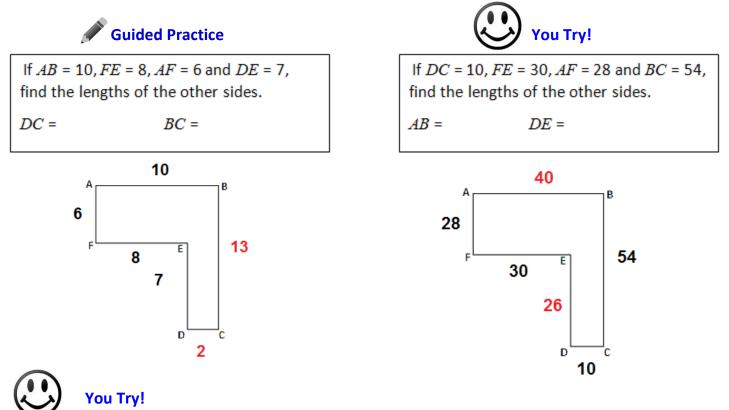
A <u>Complex figure</u> is a figure that can be divided into more than one of the basic shapes. Some people call these figures irregular figures. Some complex figures are shapes that connect to make a bigger shape. Other complex figures are shapes inside of other shapes.



Answers will vary, but students may see rectangles, triangles, and trapezoids.

SETION 3: Decomposing Complex Figures

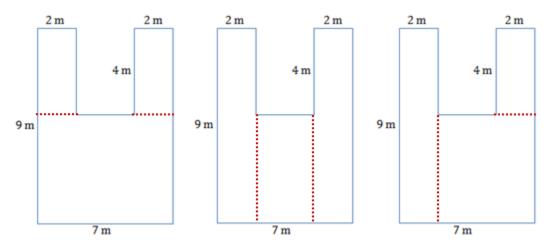
In order to find the area of a complex figure, you need to know how to find missing side lengths. You also need to be able to decompose the figure into individual shapes.



Sometimes there is more than one way to decompose a complex figure!

The Intermediate School is producing a play that needs a special stage built. A diagram is shown below.

- <u>On the first diagram</u>, divide the stage into three rectangles using two horizontal lines.
- On the <u>second diagram</u>, divide the stage into three rectangles using two vertical lines.
- On the <u>third diagram</u>, divide the stage into three rectangles using one horizontal line and one vertical line.



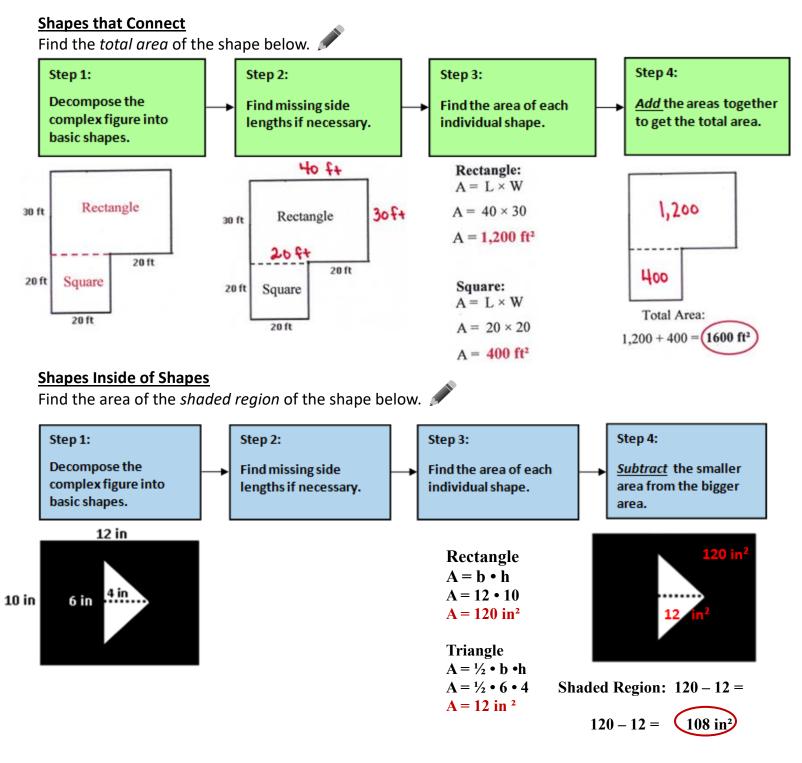
SETION 4: Finding the Area of Complex Figures

There is not an easy formula to find the area of complex figures. Now is the time when you really need to understand how to compose and decompose a figure.

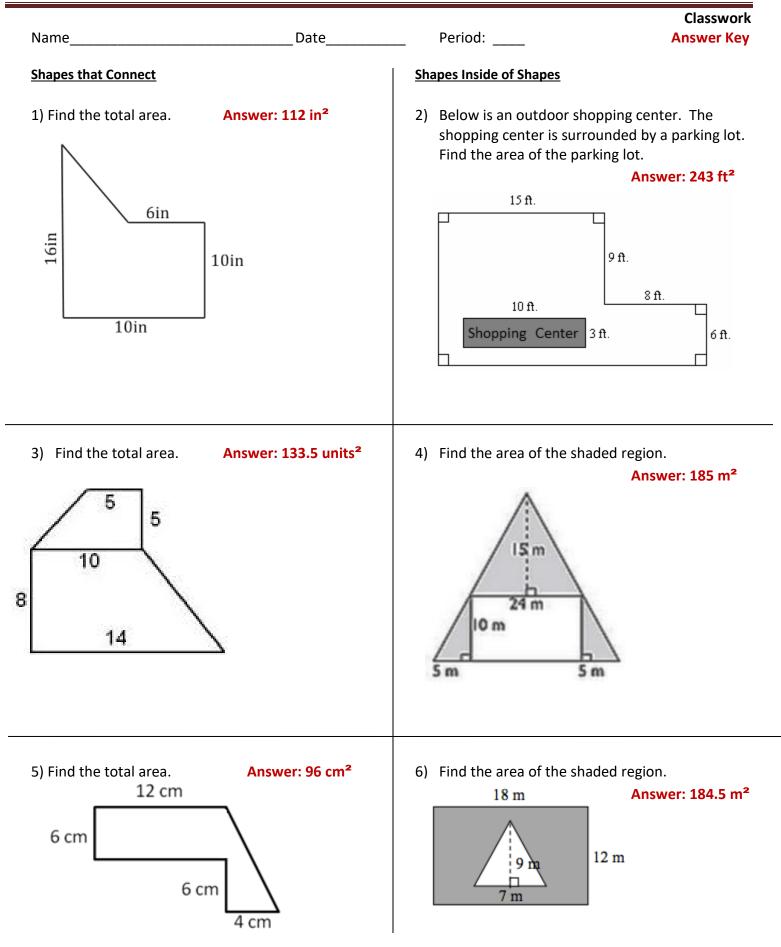
• There are two types of complex figures: Shapes that connect

Shapes inside of shapes

• How you calculate the area depends upon what type of complex figure you have and the shapes that can be decomposed.







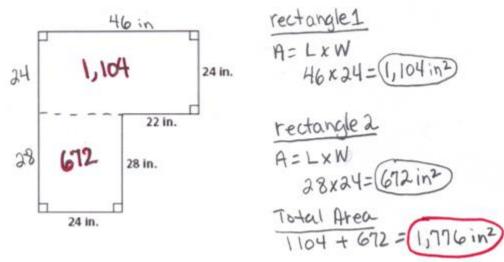
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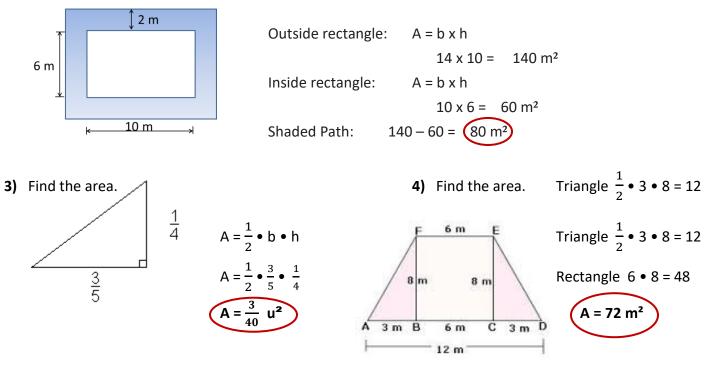
Period:

Extra Practice Answer Key

 The top-view of Mr. thopson's office desk is shown below. What is the area of the top of Mr. thompson's office desk?



2) A rectangular flower bed measures 10 m by 6 m. It has a path 2 m wide around it. Find the area of the path.



5) Find the area.

