

\*Due Thursday, Oct. 15<sup>th</sup>

6.G.A.1

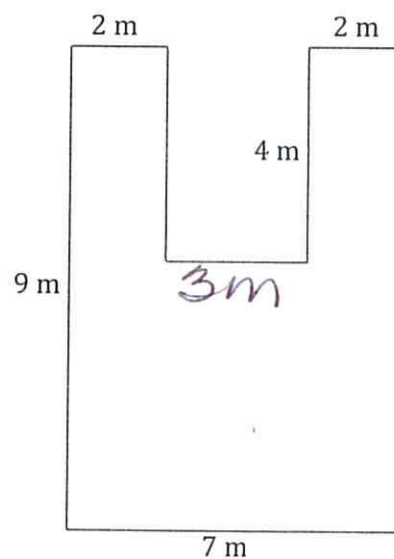
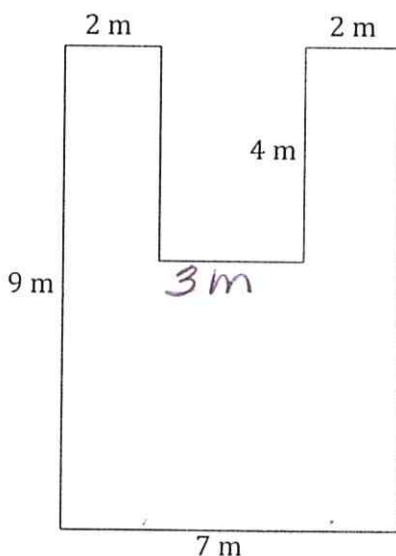
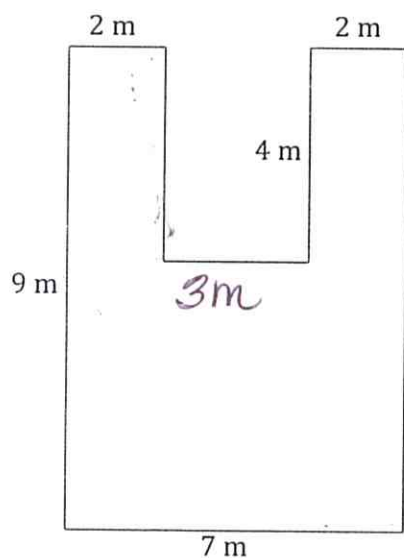
### Applied Problems for Squares and Rectangles # 1

A Middle School is producing a play that needs a special stage built. A diagram is shown below (not to scale).

- a. On the first diagram, divide the stage into three rectangles using two horizontal lines. Find the dimensions of these rectangles and calculate the area of each. Then, find the total area of the stage.

- b. On the second diagram, divide the stage into three rectangles using two vertical lines. Find the dimensions of these rectangles and calculate the area of each. Then, find the total area of the stage.

- c. On the third diagram, divide the stage into three rectangles using one horizontal line and one vertical line. Find the dimensions of these rectangles and calculate the area of each. Then, find the total area of the stage.



★ Show work for areas below:

a.

b.

c.