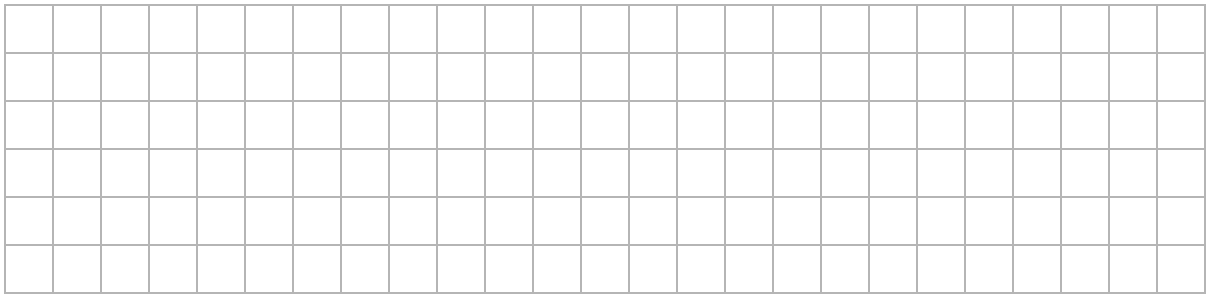
Area of a Triangle
Extend Your Learning

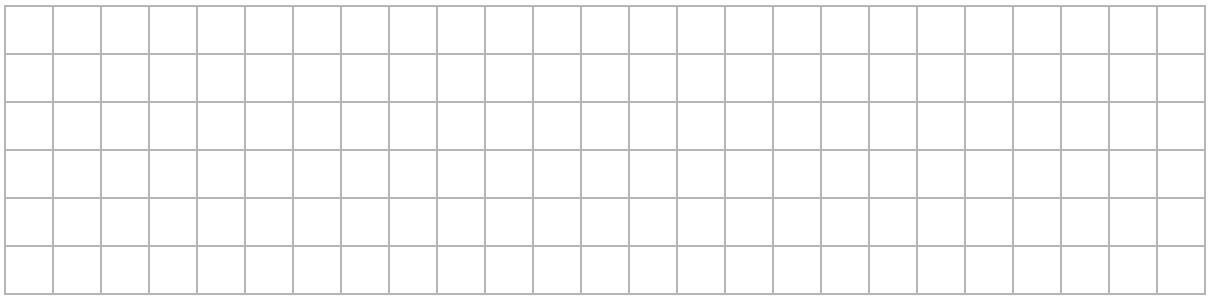
1. On the grid below, draw three triangles that are not congruent. Make the base of each triangle 3 units and the height of each triangle 4 units.



Do the triangles have the same perimeter? Why or why not?

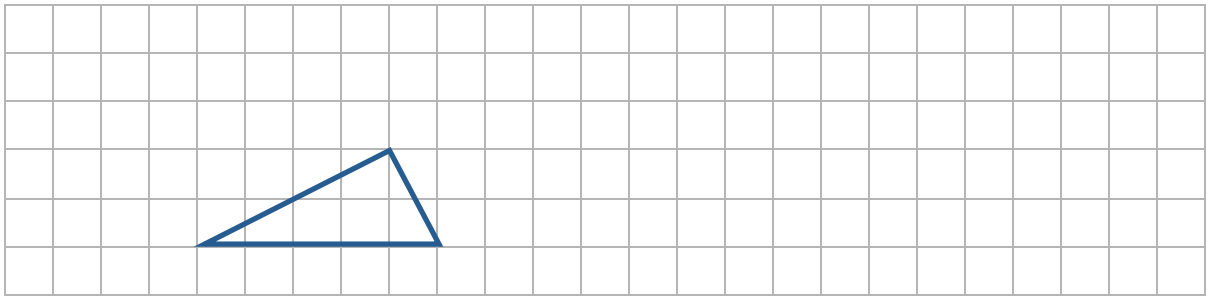
Do the triangles have the same area? Why or why not?

2. On the grid below, draw three different triangles each having an area of 8 square units.



List all possible whole numbers you could use for the base and corresponding height of a triangle with an area of 8 square units.

3. Sketch a triangle that is similar to the following triangle. Make the base and height of your new triangle twice the length of the original base and height.



Find the area of each triangle.

Describe what happened to the area when the base and height were doubled.

4. Max needs to fertilize several small sections of lawn around a miniature golf course. He needs to know the area of the lawn to determine how much fertilizer to apply. He knows how to find the area of rectangular-shaped sections, but he is having trouble finding the area of each of the following sections. Determine the area of each section of lawn.