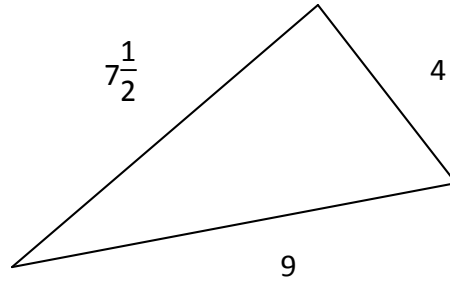
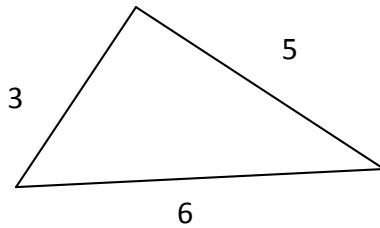


1. Are the following two triangles similar? Explain your reasoning. (Note: The triangles are not drawn to scale.)



2. The Cedar Valley Recreational Soccer League recommends that fields be the following size for each age category.

Age Category	Field Size
Adult	60 yards by 100 yards
U-12 (under age 12)	50 yards by 80 yards
U-10 (under age 10)	40 yards by 70 yards
U-8 (under age 8)	25 yards by 50 yards
U-6 (under age 6)	15 yards by 30 yards

Which, if any, of the fields are mathematically similar? Justify your reasoning.



3. Julie is making a rectangular quilt and wants to add a 2-inch border around all the edges. Will the new quilt be similar to the old quilt? Justify your answer.