

**LESSON**  
**5.7****Challenge Practice***For use with the lesson "Graph Linear Inequalities in Two Variables"***Write a linear inequality satisfying the given conditions.**

1. The points  $(2, 3)$  and  $(4, 7)$  are on the boundary of the graph of the inequality, and are not solutions of the inequality. The point  $(4, 3)$  is a solution of the inequality.
2. The points  $(1, 1)$  and  $(5, 3)$  are on the boundary of the graph of the inequality, and are not solutions of the inequality. The point  $(2, 5)$  is a solution of the inequality.
3. The points  $(-4, 2)$  and  $(3, 1)$  are on the boundary of the graph of the inequality, and are solutions of the inequality. The point  $(14, 4)$  is a solution of the inequality.
4. The points  $(-1, 3)$  and  $(4, 6)$  are on the boundary of the graph of the inequality, and are solutions of the inequality. The point  $(10, 6)$  is a solution of the inequality.
5. The points  $(-2, 7)$  and  $(1, 3)$  are on the boundary of the graph of the inequality, and are solutions of the inequality. The point  $(-9, 5)$  is a solution of the inequality.
6. The points  $(2, 6)$  and  $(8, 14)$  are on the boundary of the graph of the inequality, and are not solutions of the inequality. The point  $(5, -3)$  is not a solution of the inequality.