

Challenge Practice

For use with pages 143–148

Solve the inequality. Graph the solution.

1. $-6.2x \leq -31$

2. $6.5 > \frac{a}{8}$

3. $-2.1 < \frac{n}{4.8}$

4. $\frac{w}{8.5} \geq -16.2$

5. Elisa is taking a 225-mile trip and she wants to reach her destination in less than $4\frac{1}{2}$ hours. What average speeds allow Elisa to reach her goal if she does not make any stops?
6. Your art class is selling hand-made greeting cards to raise money for a trip to an art museum. Your class makes \$1.25 for each card you sell. How many cards must your class sell to make at least \$250?
7. The length of a rectangle is two times its width. If the perimeter of the rectangle can be no more than 54 units, what are the possible widths of the rectangle?
8. Find all the values of x that make both of the following inequalities true: $\frac{x}{3.5} < 6$ and $4x \geq -16$. Show how you found your answer.
9. Find all the values of x that make both of the following inequalities true: $5.5x < 11$ and $-2.4x \geq -12$. Show how you found your answer.