6 CHAPTER REVIEW

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- Multi-Language Glossary
- Vocabulary practice

REVIEW KEY VOCABULARY

- graph of an inequality, *p. 356*
- equivalent inequalities, *p. 357*
- compound inequality, *p. 380*
- absolute value equation, *p. 390*
- absolute deviation, *p. 392*
- linear inequality in two variables, *p. 405*
- solution of an inequality in two variables, *p. 405*
- graph of an inequality in two variables, half-plane, *p. 405*

VOCABULARY EXERCISES

1. Translate the verbal sentence into an absolute value equation: "The absolute deviation of x from 19 is 8."
2. Identify three ordered pairs that are solutions of $2x - 3y \geq -10$.
3. **WRITING** When you graph a linear inequality in two variables, how do you know whether the boundary line is a solid line or a dashed line? How do you know which half-plane to shade?

REVIEW EXAMPLES AND EXERCISES

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 6.

6.1 Solve Inequalities Using Addition and Subtraction *pp. 356–361*

EXAMPLE

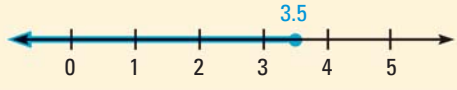
Solve $x - 2.1 \leq 1.4$. Graph your solution.

$x - 2.1 \leq 1.4$ — Write original inequality.

$x - 2.1 + 2.1 \leq 1.4 + 2.1$ — Add 2.1 to each side.

$x \leq 3.5$ — Simplify.

▶ The solutions are all real numbers less than or equal to 3.5.



EXAMPLES 1, 2, 3, and 4 on pp. 356–358 for Exs. 4–7

EXERCISES

4. **GEOGRAPHY** The lowest elevation in Mexico is −10 meters at Laguna Salada. Write and graph an inequality that describes all elevations in Mexico that are greater than the lowest elevation.

Solve the inequality. Graph your solution.

5. $x + 5 > -13$
6. $m - 9 \geq -4$
7. $s + 3.7 < 1$