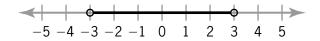


DIGITAL



- **1.** Why does the inequality 2|9k + 4| < 0 have no solution?
- **2.** Is 3(x + 2) < 15 the same as writing 3|x + 2| < 15? Verify your answer by solving each inequality.
- **3.** Write an absolute value inequality using "less than" whose solution is graphed below. Explain how you found your answer.



- **4.** Explain why the inequality |x| < 5 can mean the distance between zero and x is less than 5.
- **5.** Use your response to question 4 to explain what distance is represented by |y 3| < 2.

Cumulative Review

Rewrite each sentence as an algebraic equation or inequality.

- **1.** Four times a number *b* is equal to nineteen.
- 2. Five less than a number *m* squared is two.

4. The product of *x*, *y*, and *z*, is zero.

of k and h.

- **3.** Five is less than a number *m* squared.
- **5.** Twelve increased by *m* is greater than *n* increased by two.
- **7.** Half of *y* decreased by seven is equal to *z*.

8. Ten divided by *p* is at least negative sixteen.

6. A number *k* increased by *g* is equal to the sum

- **9.** Seven times *j* is no more than *k*.
- **10.** Eight more than the square root of *x* is nine.

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Module 6 Lesson 3