3.1–3.3 Quiz

Check It Out
Progress Check
BigIdeasMath.com

Write the word sentence as an inequality. *(Section 3.1)*

1. A number x plus 1 is less than -13.

2. A number t minus 1.6 is at most 9.

Tell whether the given value is a solution of the inequality. *(Section 3.1)*

3. $12n < -2;\ n = -1$

4. $y + 4 < -3;\ y = -7$

Graph the inequality on a number line. *(Section 3.1)*

5. $x > -10$

6. $w < 6.8$

Solve the inequality. Graph the solution. *(Section 3.2 and Section 3.3)*

7. $x - 2 < 4$

8. $g + 14 \geq 30$

9. $h - 1 \leq -9$

10. $\frac{3}{2} < p + \frac{1}{2}$

11. $\frac{n}{-6} \geq -2$

12. $-4y \geq 60$

Write the word sentence as an inequality. Then solve the inequality. *(Section 3.3)*

13. The quotient of a number and 6 is more than 9.

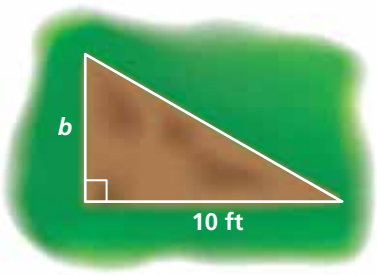
14. Five times a number is at most -10.

15. LIFEGUARD Three requirements for a lifeguard training course are shown. *(Section 3.1)*

a. Write and graph three inequalities that represent the requirements.

b. You can swim 350 feet. Do you satisfy the swimming requirement of the course? Explain.

16. REASONING The solution of $x - a > 4$ is $x > 11$. What is the value of a? *(Section 3.2)*



17. GARDEN The area of the triangular garden must be less than 35 square feet. Write and solve an inequality that represents the value of b. *(Section 3.3)*