

What Do You Call A Bull That's Sleeping?

Write the letter of each answer in the box containing the exercise number.

Write the word sentence as an inequality.

- 1. A number x is greater than 25.8.
- 2. Twice a number x is at most $-\frac{3}{5}$.
- 3. A number x minus 9.3 is more than 4.6.
- **4.** A number x added to 11.7 is less than 14.

Tell whether the given value is a solution of the inequality.

5.
$$x - 3.6 \le 2.8$$
; $x = 6.7$

6.
$$\frac{5}{6}x > -10$$
; $x = -6$

Match each inequality with its graph.

7.
$$x \le -7$$

8.
$$x > 3.2$$

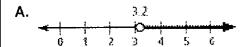
9.
$$x < 3\frac{1}{4}$$

10.
$$x \ge -\sqrt{121}$$

Answers

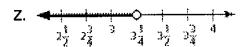
U.
$$11.7 + x < 14$$

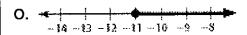
L.
$$x > 25.8$$



E.
$$2x \le -\frac{3}{5}$$

L.
$$x - 9.3 > 4.6$$





3.1 Practice B

Write an inequality for the graph. Then, in words, describe all the values of x that make the inequality true.



Write the word sentence as an inequality.

- 3. A number x is at least 15.
- **4.** A number r added to 3.7 is less than 1.2.
- **5.** A number h divided by 2 is more than -5.
- **6.** A number a minus 8.2 is no greater than 12.

Tell whether the given value is a solution of the inequality.

7.
$$p + 1.7 \ge -4$$
; $p = -9$

8.
$$-3y < -5$$
; $y = 1$

9.
$$1.5g \le 6; g = 0$$

10.
$$\frac{3}{4} - d > \frac{1}{3}$$
; $d = \frac{1}{2}$

Graph the inequality on a number line.

11.
$$\ell \leq 3.5$$

12.
$$m > -15$$

13. To get a job at the local restaurant, you must be at least 16 years old. Write an inequality that represents this situation.

Tell whether the given value is a solution of the inequality.

14.
$$5t < 4 - t; t = -3$$

15.
$$\frac{q}{5} < q - 20; q = 15$$

- 16. In order to qualify for a college scholarship, you must have acceptable scores in either the SAT or the ACT along with the following requirements: a minimum GPA of 3.5; at least 12 credits of college preparatory academic courses; and at least 75 hours of community service.
 - a. Write and graph three inequalities that represent the requirements.
 - b. Your cousin has a GPA of 3.6, 15 credits of college preparatory class, and 65 hours of community service. Other than the test scores, does your cousin satisfy the requirements? Explain.