

4.1 Practice A

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 most 3.
4. A number y added to 2 is greater than 7.
5. A number c multiplied by 3 is less than -12 .
6. A number m minus 1.5 is no less than 2.

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

7. $t - 3 \geq 2$; $t = 10$
8. $6w < -2$; $w = 1$
9. $p + 1.6 \leq 4$; $p = 5$
10. $\frac{1}{2}d > -3$; $d = 0$

Graph the inequality on a number line.

11. $k > 1$
12. $n \leq -2.5$
13. In order to try out for one of the parts in a play at the local theater, you must be at most 12 years old. Write an inequality that represents this situation.

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

14. $3h - 7 < h$; $h = 2$
15. $q + 8 \geq \frac{q}{4}$; $q = -12$
16. Consider the inequalities $-2x < 10$ and $-6 < -2x$.
 - a. Is $x = 0$ a solution to both inequalities?
 - b. Is $x = 4$ a solution to both inequalities?
 - c. Find another value of x that is a solution to both inequalities.