Use the inequality to express in words, graph on the number, and select values that are in the solution set.

1.

Inequality: x < 6

Express in words:

x is a number less than six

Graph on number line:



Circle all values of x that make the inequality true:

$$x = 8$$



$$x = 6$$



Inequality: $n \ge -2$

Express in words:

n is a number greater than or equal to negative two

Graph on number line:



Circle all values of n that make the inequality true:

$$n=3$$

$$n = 0$$

$$n = -5$$



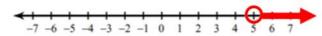
Use the verbal to write the inequality, graph on the number, and select values that are in the solution set.

Inequality: × > 5

Express in words:

y is a number greater than five

Graph on number line:



Circle all values of y that make the inequality true:

$$y = 8$$

$$v = 2$$

$$y = 5$$

$$y = 2$$
 $y = 5$ $y = -4$

Inequality: X ≤ \

Express in words:

h is a number less than or equal to one

Graph on number line:



Circle all values of h that make the inequality true:

$$h = 3$$



$$h = -5$$



Use the number line to write the inequality, express in words, and select values that are in the solution set.

Inequality: $\times \geq -$ (use x as the variable)



Express in words:

x is a number greater than or equal to negative one

Graph on number line:



Circle all values of x that make the inequality true:

$$x = 3$$

$$x = 0$$

$$x = -5$$

$$x = -1$$

Rewrite the inequality so that the variable is on the left side. Then graph on the number line.

6.
$$3 > x$$

$$\chi < 3$$



7.
$$-4 \le y$$



8.
$$0 < h$$



Graph the inequalities on the number line. Determine if the point is in the solution set.

9.
$$x > 4$$



Is x = 5 in the solution set?

Yes



12. $6 \le n$



Is n = -2 in the solution set?

No

10.
$$g \le -5$$



Is g = 0 in the solution set?



13. $-3 \ge b$



Is b = -3 in the solution set?

11. t < 1



Is t = 3 in the solution set?

No

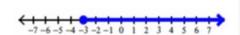
14. $p \neq 2$



Is p = 4 in the solution set?

Write an inequality for each graph (use n as your variable). Determine if the point is in the solution set.

 $n \ge -3$



Is n = 5 in the solution set?







Is n = 1 in the solution set?

No

Is n = 0 in the solution set?

No

18.

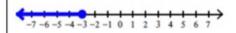


Is n = 6 in the solution set?

Yes

19.





Is n = -5 in the solution set?

Yes

20.



Is n = 3 in the solution set?

Yes