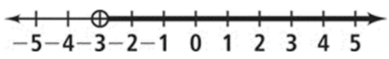
1.

Write an inequality to match the graph.



2.

Solve and graph the inequality.

$$-\frac{b}{3} > -4$$

3.

Solve and graph the inequality.

$$5t - 6 - 3t \leq 2(t - 2)$$

4.

$$|3z - 6| = 9$$

5.

Solve and graph the inequality.

$$8 - 7x > 15$$

6. ***level 4**

On a game show you guess the price of items. In order to win your average guesses must be no more than $3 away from the actual price. Your first 3 guesses were over by $5, under by $10, and over by $2. Write and solve an inequality to represent how far off your last guess can be in order to win.

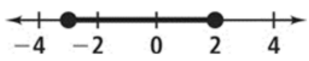
7. ***level 4**

Solve and graph the inequality.

$$|v + 4| \geq 10$$

8.

Write an inequality to match the graph.



9.

Write an inequality to represent the situation.

In order for students to go on a school trip, at least 50 students must sign up.

10.

Solve and graph the inequality.

$$-2p \leq -18 \text{ or } 3p < 9$$

11.

$$|4x - 2| + 10 = 5$$

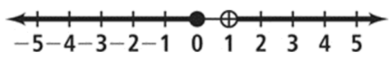
12. ***level 4**

Solve and graph the inequality.

$$|2x + 6| < 12$$

13.

Write an inequality to match the graph.



14. *Solve and graph the inequality.*

$$11 \leq 2.2t$$

15.

Write an inequality to represent the situation.

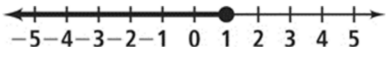
The thermostat setting keeps the temperature in a building within 2 degrees of the set temperature. If the thermostat is set at 71°, find the range of possible temperatures.

16.

$$|2x + 5| - 7 = 36$$

17.

Write an inequality to match the graph.



18.

Write an inequality to represent the situation.

To win the race, Bobby must run faster than 7 minutes.