Solve each inequality. Graph

1. $-8w < 24$

2. $9 + p \leq 17$

3. $\frac{r}{4} > -1$

4. $x - 2 < 3x - 4$

5. $4 - x \leq 3$

6. $1 - 4d \geq 4 - d$

7. The booster club raised $102 in their car wash. They want to buy $18 soccer balls for the soccer team. Write and solve an inequality to find how many soccer balls they can buy.
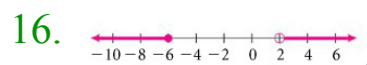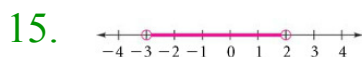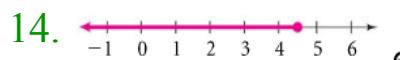
8. You earn $7.50 per hour and need to earn $35. Write and solve an inequality to find how many hours you must work.

9. $-6 < t - 1 < 6$

10. $3n - 7 > n + 1$ or $4n - 5 < 3n - 3$

11. $6m - 15 \leq 9$ or $10m > 84$

12. $37 < 3c + 7 < 43$

13.

14.

15.

16.

Write and solve an inequality for each situation.

17. The sophomore class is putting on a variety show to raise money. It costs $700 to rent the banquet hall they are going to use. If they charge $15 for each ticket, how many tickets do they need to sell in order to raise at least $1000?

18. A technical-support company charges $10 per month plus $35 per hour of phone support. If you need to spend less than $100 per month on support, how many hours can you get?

Write a compound inequality for each situation. Graph your solution.

19. Water will not be in liquid form when it is colder than 32°F or warmer than 212°F.

20. The width of a parking space needs to be at least 8 feet and no more than 11 feet.