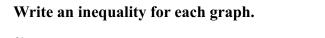
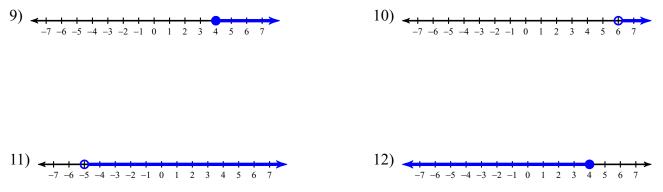
Algebra 1 © 2015 Kuta Software LLC. All rights re 4.1 HW	Name eserved.	Date
Solve each inequality.		
1) $-9 \le n - 8$	2) $\frac{b}{6} > 7$	
3) $6 - 3r + 5 \le 8$	4) <i>p</i> + 6 <i>p</i> ≤ 21	

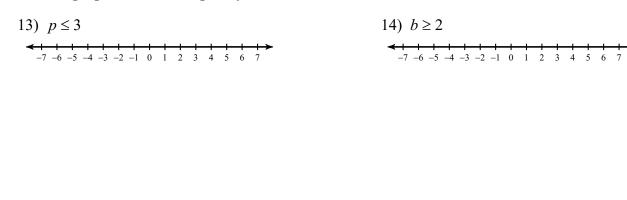
5)  $-7 - 6n \le 1 - 7n$  6) n - 4 - 1 > 4n - 4n

7) 
$$88 > -8(-p-7)$$
 8)  $-8(r-6) < 23 - 3r$ 





Draw a graph for each inequality.



15) -3 < r



- 17) A prom ticket at Smith High School is \$120. Tom is going to save money for the ticket by walking his neighbor's dog for \$15 per week. If Tom already has saved \$22, what is the minimum number of weeks Tom must walk the dog to earn enough to pay for his prom ticket?
- 18) Chelsea has \$45 to spend at the fair. She spends \$20 on admission and \$15 on snacks. She wants to play a game that costs \$0.65 per game. Write an inequality to find the maximum number of times, x, Chelsea can play the game. Using the inequality, determine the maximum number of times she can play the game.

- 19) Mr. Braun has \$75 to spend on pizza and soda for a picnic. Pizza costs \$9 per pie and each drink costs \$0.75. Five times as many drinks as pizzas are needed. What is the maximum number of pizzas that Mr. Braun can buy?
- 20) The Eye Surgery Institute just purchased a new laser machine for \$500,000 to use during eye surgery. The Institute must pay the inventor \$550 each time the machine is used. If the Institute charges \$2,000 for each laser surgery, what is the minimum number of surgeries that must be performed in order for the Institute to make a profit?