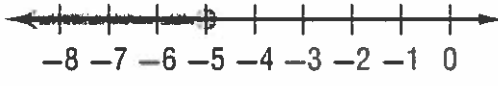

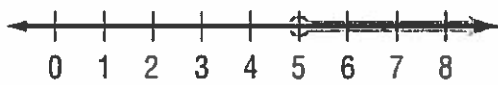
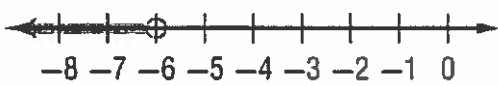



Solving Inequalities by Addition and Subtraction


Match each inequality to the graph of its solution. Show your work when solving each inequality.

- C 1. $x + 1 > 16$
~~-1~~ -11 $\rightarrow x > 5$
- E 2. $x - 6 < 1$
~~+6~~ +6 $\rightarrow x < 7$
- A 3. $x + 2 \leq -3$
~~-2~~ -2 $\rightarrow x \leq -5$
- B 4. $x + 3 \geq 1$
~~-3~~ -3 $\rightarrow x \geq -2$
- D 5. $x - 1 < -7$
~~+1~~ +1 $\rightarrow x < -6$


- a. 
- b. 
- c. 
- d. 
- e. 

Solve each inequality, showing your work. Check your solution, and then graph it on a number line.


6. $d - 5 \leq 1$
~~+5~~ +5 $d \leq 6$




7. $t + 9 < 8$
~~-9~~ -9 $t < -1$




8. $a - 7 > -13$
~~+7~~ +7 $a > -6$




9. $w - 1 < 4$
~~+1~~ +1 $w < 5$



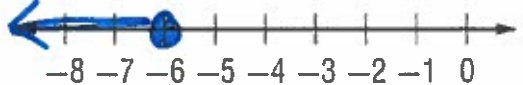
10. $4 \geq k + 3$
~~-3~~ -3 $1 \geq k \rightarrow k \leq 1$



11. $-9 \leq b - 4$
~~+4~~ +4 $-5 \leq b \rightarrow b \geq -5$



12. $-2 \geq x + 4$
~~-4~~ -4 $-6 \geq x \rightarrow x \leq -6$



13. $2y < y + 2$
~~-y~~ -y $y < 2$

