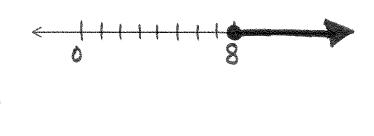


## 3.4-> SOLVING MULTI-STEP INEQUALITIES

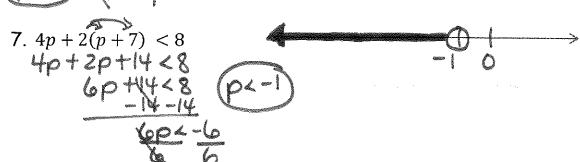
Solve each inequality, and graph your solution.

1. 
$$\forall + 6a > 19$$
 $-7$ 
 $| 6a > 12$ 
 $| 6a >$ 

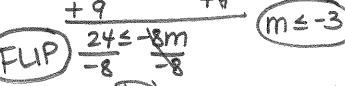
5. 
$$-4 \le \frac{x}{4} + 6$$
  
 $+6 + 6$   
 $(4) 2 \le \frac{x}{4} + 3$   
 $\times = 8$ 



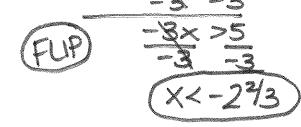
## Using Distributive Property:

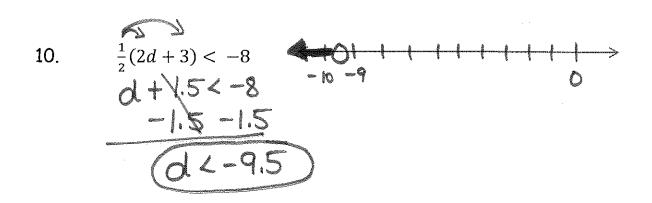












Variables on Both Sides:

11. 
$$6z - 15 < 4z + 11$$
 $2z < 15 < 11$ 
 $+ |5| + |5|$ 
 $2z < 2b$ 
 $2z < 2b$ 

12. 
$$8x - 6 < 3x + 12$$

$$5x - 6 < 12$$

$$16 + 6$$

$$5x < 18$$

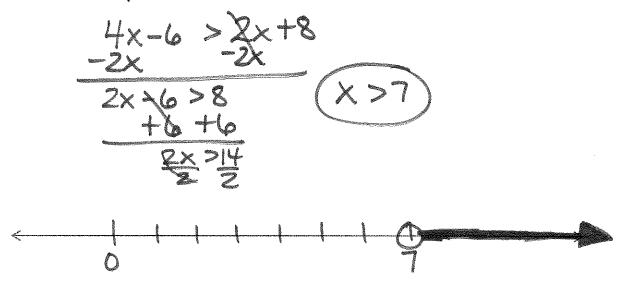
$$5x < 18$$

$$5x < 18$$

$$5x < 33/5$$

## Word Problems:

13. Four times a number less 6 is greater than 2 times the number plus 8. For what numbers is this true?



14. Alex's telephone company charges \$10 a month plus \$.05 per minute. Alex wants his monthly bill to be under \$30. What is the greatest number of minutes he can talk?

m < 400 Up to 400 minutes

