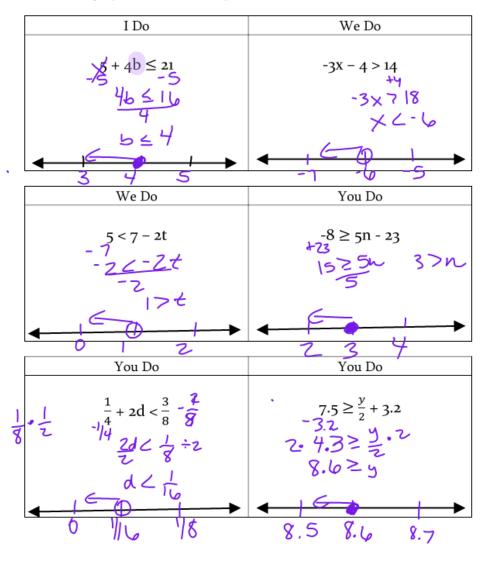
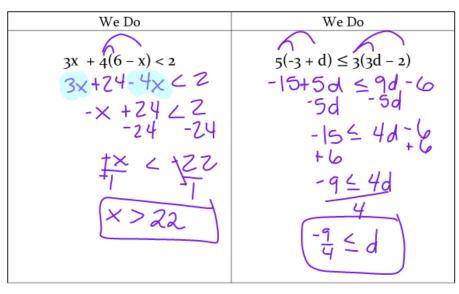
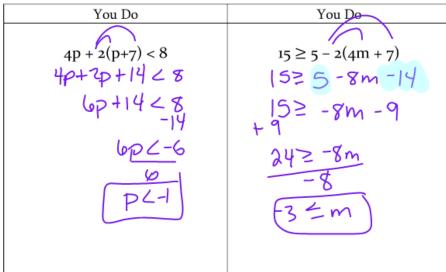
#### **Example 1: Solving and Graphing Inequalities**

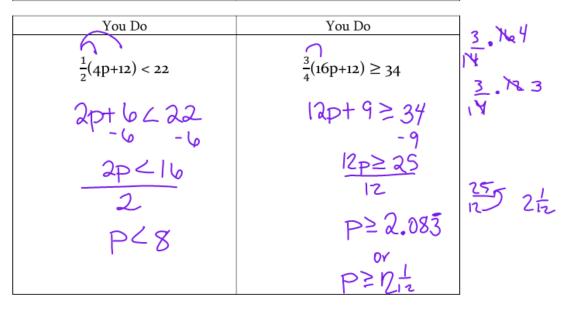
Solve and graph each of the inequalities.







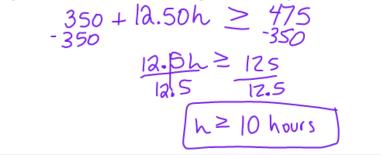
We Do	We Do
3b + 12 > 27 - 2b	-6 (x - 4) < 7 (2x - 3)



#### **Example 2: Solving Word Problems**

Solve and graph each situation.

Jalen wants to purchase a new video game system that costs \$475. He has made \$350 working at a local café. If he makes \$12.50 per hour, how many more hours must he work to purchase the system.



Sam is opening her own business where she types papers for local businesses. She spends \$299 on a new computer. If she charges businesses \$12.99 per hour, how many hours will she have to work to make \$145.

$$-299 + |2.99h \ge 145 \\ +299 + 299 \\ +299 + 299 \\ |2.99h \ge 44 \\ -12.99 \\ h \ge 34.180 \text{ hours}$$