3.13.4 Review

Vame: Key

Solve & graph each inequality.

1.
$$n-6 \le 8.5$$

to to
 $n \le 14.5$

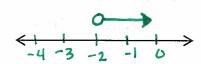
4.
$$2(m-5) + 4m \le 56$$

 $2m-10 + 4m \le 56$
 $6m-10 \le 56$
 $+10 + 10$
 $4m \le 66$
 $m \le 11$



7.
$$12b-5 > -29$$
+5 +5

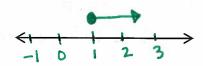
 $13b > -24$
 13
 13



2.
$$1-4d \ge 4-d$$
 $+4d$
 $+4d$
 $1 \ge 4+3d$
 $-3 \ge 3d$
 3
 3
 $-1 \ge d \Rightarrow d \le -1$

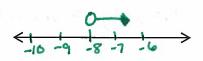
5.
$$6(c+3)-9>27$$
 $6c+18-9>37$
 $6c+9>27$
 $6c+9$

8.
$$4-x \le 3$$
 -4
 -4
 -1
 $X \ge 1$



3.
$$t-5 > -13$$

+5 +5
 $t > -8$



6.
$$x-2 < 3x-4$$

-3x

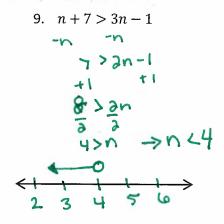
-3x

-2x-2 \(\text{-4} \)

+2 \(\text{+2} \)

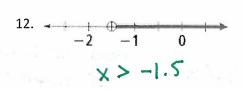
-3x \(\text{-2} \)

\(\text{-3} \)

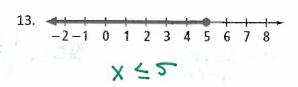


Write an inequality that represents each verbal expression or graph

10. *b* is less than or equal to −1



11. 2 more than k is greater than -3



Define a variable and write an inequality for each situation.

14. A car dealership sells at least 35 cars each week

16. You must run faster than 11.2 seconds to win

15. No more than 425 raffle tickets will be sold

+4425

17. You must be at least 18 years old to vote.

a ≥ 18

Write & solve an equality for each situation.

18. A homeroom class with 25 students is holding a fund-raiser to support school sports. Their goal is to raise at least \$200. On average, how much money does each student need to contribute to meet or exceed the goal?

at least \$8 per student

19. You earn \$7.50 per hour and need to earn \$35. How many hours do you need to work?

need to work at least 42/3 hrs.

20. The booster club raised \$102 in their car wash. They want to buy \$18 soccer balls for the soccer team. How many soccer balls could they buy?

5 4 5 3/2

21. Suppose you are trying to increase your coin collection to at least 500 coins. How many more coins do you need if you already have a collection of 375 coins?

at least 125 more Luins

22. Janet has a balance of \$125 on a credit card. On her next statement, she wants to reduce her balance to no more than \$60. How much does she need to pay off?

$$-125 - m \le 60$$
 -125
 $-m \le -65$

23. You are reading a book with 19 chapters. How many chapters should you read each week if you want to finish the book in 5 weeks or less?

