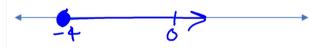
Write an inequality for the following statements.

1.) The theater can seat no more than 500 people.

X < 500

2.) The ladder can reach a maximum of 20 feet up the wall.

6.) Graph this inequality: $-4 \le G$



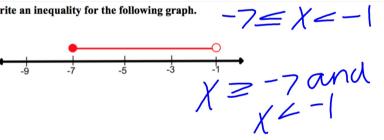
3.) They need at least 51% of the people to vote yes for the proposal to pass.

51 ≤ X X ≥ 51

4.) The team can have up to 18 players on the roster. $\chi = 18$

5.) The minimum charge allowed to be able to use a credit card is \$10.

7.) Write an inequality for the following graph.



Solve each inequality/absolute value equation.

8.)
$$4-3(y-5)+9y>15+6y$$

 $4-3y+15+9y>15+6y$
 $19+6y>15+6y$
 19715

10.)
$$3|2x-7|+4=31$$

$$-4-4$$

$$3|2x-7|=27$$

$$|2x-7|=9$$

$$2x-7=9$$

$$2x=-2$$

$$2x=16$$

$$x=-1$$

$$\frac{3.7 \frac{11}{9} - \frac{7}{6}M}{49 - \frac{7}{6}M} = \frac{5}{12}$$

$$\frac{44 - 42M}{-42M} = \frac{15}{29}$$

$$-42M = -29$$

$$M = \frac{29}{42}, 0.69$$

$$11.)\frac{1}{2}|3x+8|+13=5 -|3|-|3| 2 \cdot \frac{1}{2}|3x+8| = -8 \cdot 2 = -16$$

1.)	Solve:	1/2 X	+ 8 = 20
,	••••	31 1	

3.) Solve:
$$-6|2x - 14| = -42$$

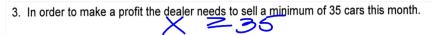
2.) Solve:	3 x - 2 - 10 = 11	

- Write an inequality to model each statement:

 1. The team needs at least 42,000 fans to show up for the last game to break the attendance record.

 2. You can take no more than 45 minutes to complete the test.

$$\chi \leq 45$$



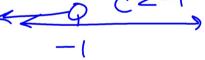
4. The restaurant can seat up to 120 people at a time.

Graph each inequality on a number line.

8.
$$y \ge -3$$

9. m < 5

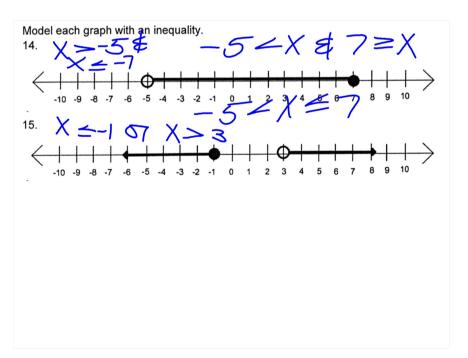
10.
$$-1 > 0$$



5. The maximum score on the SAT test is 1600

6. To be a pilot your standing height must be between 62 inches and 77 inches7. To get a discount movie ticket you can be no more than 10 years old or must be at least 60 years old.

$$\chi \leq 10^{57}$$



Solve	each	inequ	ality.
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17.
$$9 - 4x \ge 29$$

18.
$$-7 + 2(w - 3) < -42$$

19.
$$m + 8 - 4m \le 2m + 6 - m - 12$$

20.
$$4k + 3(k-1) > 6(k-2) + 9 + k$$

Solve each Absolute Value Equation.

31.
$$2|x-9.8| + 3.2 = 42.6$$

Hwk #25 - due Thursday

Sect. 3-6

Pages: 169-170

Problems: 4-15, 50

IXL #9 - K.2 & K.10 due Friday at 4pm!