

EOC REVIEW - Absolute Value & Inequalities

Date _____ Period _____

Solve each equation.

1) $|x - 7| = 14$

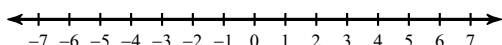
2) $6|n| = 54$

3) $|x - 3| + 6 = 11$

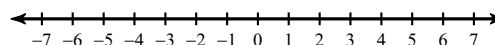
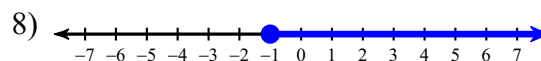
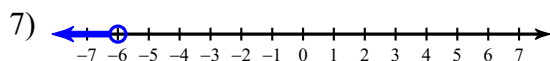
4) $8|x + 4| = 56$

Draw a graph for each inequality.

5) $n > 1$



6) $-5 \geq n$

**Write an inequality for each graph.****Write an inequality to model each situation.**

9) The restaurant must serve at least 45 people a night to make a profit.

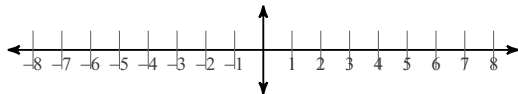
10) The Magic Kingdom has more than 1,500 lightbulbs on mainstreet.

11) You must be shorter than 52 inches to ride the ride.

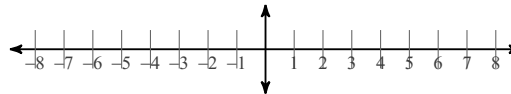
12) The theatre has a maximum capacity of 550.

Graph each compound inequality.

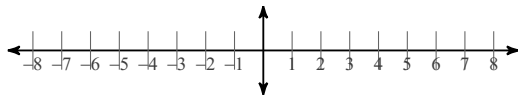
13) $n \geq -3$ and $n \leq -1$



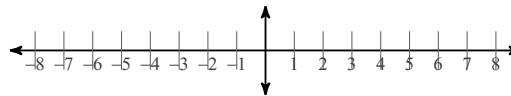
14) $-6 < x \leq 1$



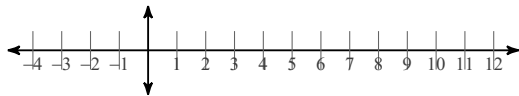
15) $x < -2$ or $x \geq 0$



16) $x < -2$ and $x > -7$



- 17) What compound inequality represents the phrase "all numbers between -1 and 7"? Graph the solutions.

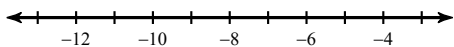


- 18) Write a compound inequality that describes people who are younger than 8 or older than 12. Graph the results

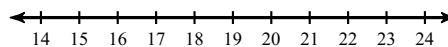


Solve each inequality and graph its solution.

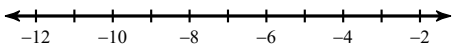
19) $-63 > 7m$



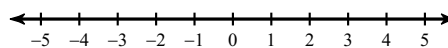
20) $17k < 306$



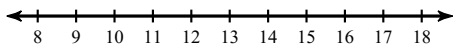
21) $-7 - r < 0$



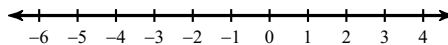
22) $2 \geq \frac{3+p}{3}$



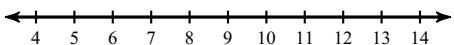
23) $-2 > \frac{v}{10} - 3$



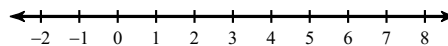
24) $-3 \leq \frac{r-5}{2}$



25) $-3 + \frac{m}{4} > -1$

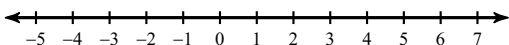


26) $-11 - 6x < 5 - 4(1 + 3x)$



Solve each compound inequality and graph its solution.

27) $-9 < x - 6 \leq -2$



28) $-6b < -30$ or $b - 1 < -2$

