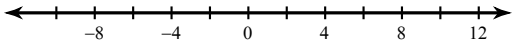
Compound Inequalities

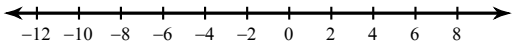
Date_____ Period____

Solve each compound inequality and graph its solution.

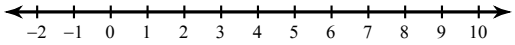
1) $m - 2 < -8$ or $\frac{m}{8} > 1$



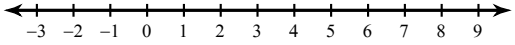
2) $-1 < 9 + n < 17$



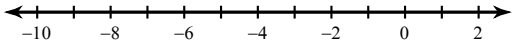
3) $2x < 10$ or $\frac{x}{2} \geq 3$



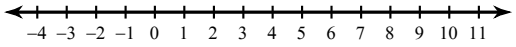
4) $x + 8 \geq 9$ and $\frac{x}{7} \leq 1$



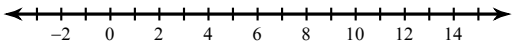
5) $-3 \leq \frac{p}{2} < 0$



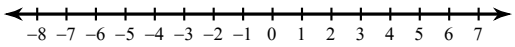
6) $r + 5 \geq 12$ or $\frac{r}{9} < 0$



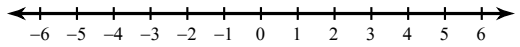
7) $7v - 5 \geq 65$ or $-3v - 2 \geq -2$



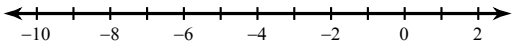
8) $-10b + 3 \leq -37$ or $3b - 10 \leq -25$



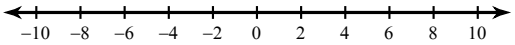
9) $-1 + 5n > -26$ and $7n - 2 \leq 12$



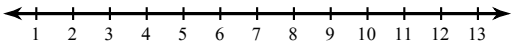
10) $-50 < 7k + 6 < -8$



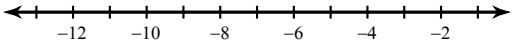
11) $8x + 8 \geq -64$ and $-7 - 8x \geq -79$



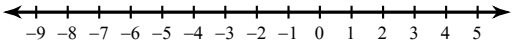
12) $2n + 7 \geq 27$ or $3 + 3n \leq 30$



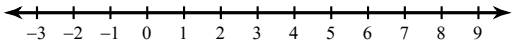
13) $-36 < 3p - 6 < -15$



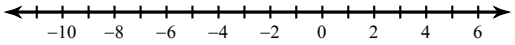
14) $-1 - 10a < -1$ or $10 + 3a \leq -5$



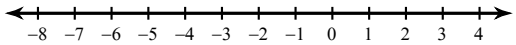
15) $3n + 2 < -2 + 7n$ or $8n - 4 \leq 3n - 4$



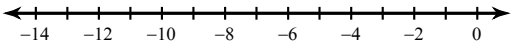
16) $8r - 5 \geq 6r - 1$ or $4 + 4r \leq 3r - 3$



17) $5x - 5 > -7x - 5$ or $3x + 5 \leq x - 1$



18) $6 + 7m < 6m - 5$ or $3m - 7 < 5 + 6m$



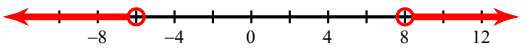
 Name_____

Compound Inequalities

Date_____ Period____

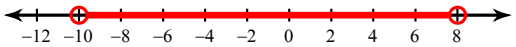
Solve each compound inequality and graph its solution.

1) $m - 2 < -8$ or $\frac{m}{8} > 1$



$m < -6$ or $m > 8$

2) $-1 < 9 + n < 17$

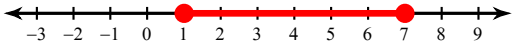


$-10 < n < 8$

3) $2x < 10$ or $\frac{x}{2} \geq 3$

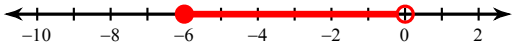
$x < 5$ or $x \geq 6$

4) $x + 8 \geq 9$ and $\frac{x}{7} \leq 1$



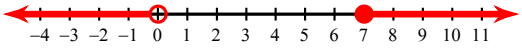
$1 \leq x \leq 7$

5) $-3 \leq \frac{p}{2} < 0$



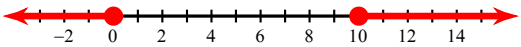
$-6 \leq p < 0$

6) $r + 5 \geq 12$ or $\frac{r}{9} < 0$



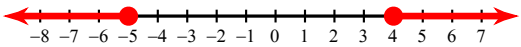
$r \geq 7$ or $r < 0$

7) $7v - 5 \geq 65$ or $-3v - 2 \geq -2$



$v \geq 10$ or $v \leq 0$

8) $-10b + 3 \leq -37$ or $3b - 10 \leq -25$

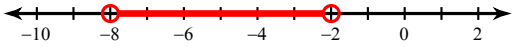


$b \geq 4$ or $b \leq -5$

9) $-1 + 5n > -26$ and $7n - 2 \leq 12$

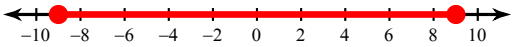
$-5 < n \leq 2$

10) $-50 < 7k + 6 < -8$



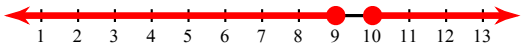
$-8 < k < -2$

11) $8x + 8 \geq -64$ and $-7 - 8x \geq -79$



$-9 \leq x \leq 9$

12) $2n + 7 \geq 27$ or $3 + 3n \leq 30$

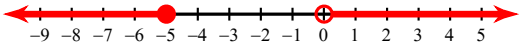


$n \geq 10$ or $n \leq 9$

13) $-36 < 3p - 6 < -15$

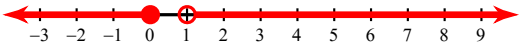
$-10 < p < -3$

14) $-1 - 10a < -1$ or $10 + 3a \leq -5$



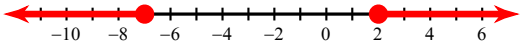
$a > 0$ or $a \leq -5$

15) $3n + 2 < -2 + 7n$ or $8n - 4 \leq 3n - 4$



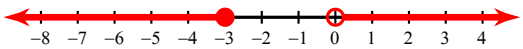
$n > 1$ or $n \leq 0$

16) $8r - 5 \geq 6r - 1$ or $4 + 4r \leq 3r - 3$



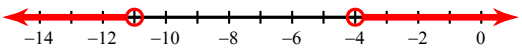
$r \geq 2$ or $r \leq -7$

17) $5x - 5 > -7x - 5$ or $3x + 5 \leq x - 1$



$x > 0$ or $x \leq -3$

18) $6 + 7m < 6m - 5$ or $3m - 7 < 5 + 6m$



$m < -11$ or $m > -4$