

Assignment #3

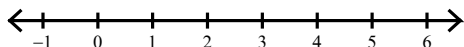
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Solve each inequality and graph its solution.

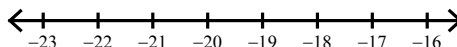
Name _____

Date _____ Period _____

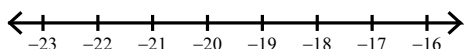
1) $2x - 4 \leq -2$



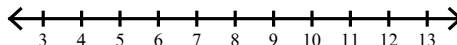
2) $2(x + 8) < -20$



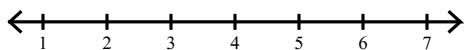
3) $3 + \frac{n}{10} < 1$



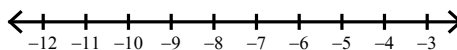
4) $-45 \leq 3 - 6p$



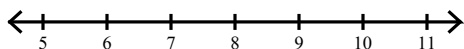
5) $-7(6 + 2x) \geq -98$



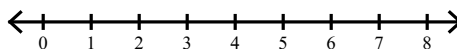
6) $-8(x - 5) - 5 > 99$



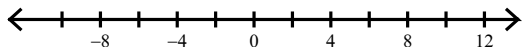
7) $-96 \geq -8(v + 4)$



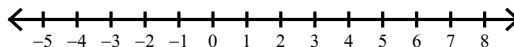
8) $-208 \geq -8(2 + 6x)$

**Solve each compound inequality and graph its solution.**

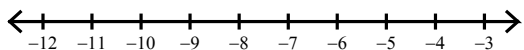
9) $-15 < x - 5 < 5$



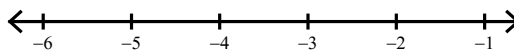
10) $-7 \leq a - 5 < 2$



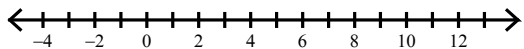
11) $36 \leq -6x \leq 60$



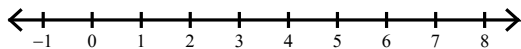
12) $4 \leq -2k \leq 6$



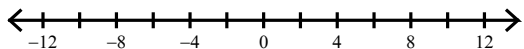
13) $x + 5 < 4$ or $x + 1 \geq 10$



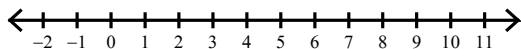
14) $-6 + p \leq -3$ or $-4 + p \geq 0$



15) $-9 + m \geq -1$ or $\frac{m}{2} \leq -4$



16) $n - 6 < -3$ or $\frac{n}{6} > 1$



Solve each equation. *Note: there should be 2 answers for each of the following.*

17) $|k| = 9$

18) $|n| = 10$

19) $|r + 10| = 1$

20) $|x + 3| = 1$

21) $-9|5k| = -45$

22) $10 + |a + 8| = 12$

23) $|-1 + p| - 5 = 2$

24) $\left|\frac{m}{5}\right| + 8 = 10$

25) $|-7n - 9| = 40$

26) $|10x - 1| = 19$

27) $|7 - 10n| + 9 = 66$

28) $|8 + 5x| - 4 = 44$

29) $10|6 + 7a| + 2 = 62$

30) $4|-3b - 9| + 2 = 86$