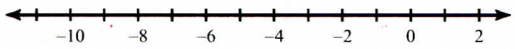
Algebra 1 Name_____

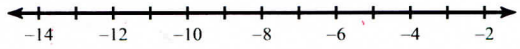
2.6 & 2.7 Review

Solve each compound inequality and graph its solution. Write your answer in set notation.

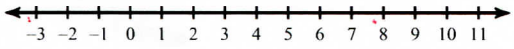
1) $6n > -48$ and $n + 4 \leq 4$



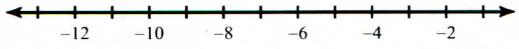
2) $\frac{n}{6} \geq -1$ or $\frac{n}{3} < -3$



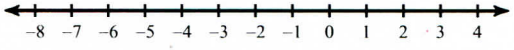
3) $\frac{r}{5} \leq 0$ or $-4r \leq -24$



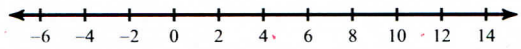
4) $-9n > 45$ and $5 + n \geq -3$



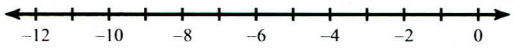
5) $5x > -5$ and $-4x \geq -4$



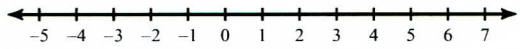
6) $a - 8 \leq -11$ or $\frac{a}{9} > 1$



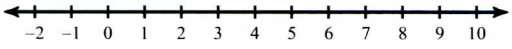
7) $-15 \leq 5v + 5 < -10$



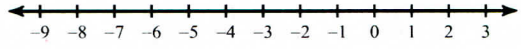
8) $0 < 5 - n < 6$



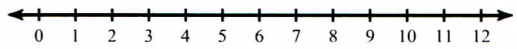
9) $-3 + 5a \geq 12$ or $2a + 3 \leq 7$



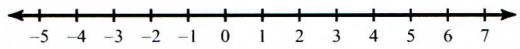
10) $-25 \leq 5m + 5 \leq -20$



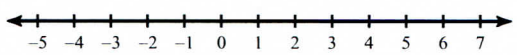
11) $-4k - 9 \leq -9k + 6$ or $3k + 4 < 4k - 1$



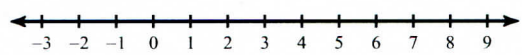
12) $1 + 3n \geq 5n - 3$ and $6 - 8n < n + 6$



13) $-1 < \frac{1}{2}r < \frac{3}{8}$

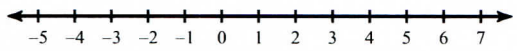


14) $\frac{2}{3}k \geq \frac{2}{3}$ or $\frac{7}{2}k < \frac{7}{4}$

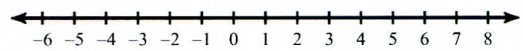


Solve each inequality and graph its solution. Write your answer in set notation.

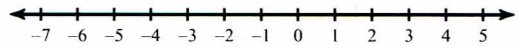
15) $|r| \leq 2$



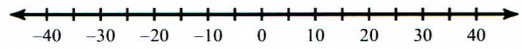
16) $|m| > 3$



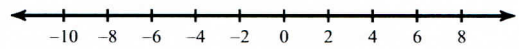
17) $|6n| > 12$



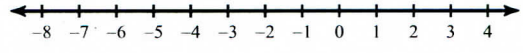
18) $\left|\frac{b}{10}\right| < 4$



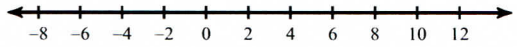
19) $\left|\frac{k}{3}\right| - 1 \geq 1$



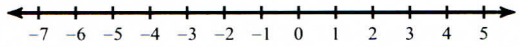
20) $|x + 3| - 3 \leq -2$



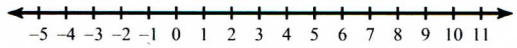
21) $\left|10 - 5n\right| + 8 \geq 38$



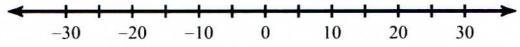
22) $6 + \left|n + 1\right| \geq 7$



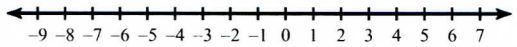
23) $5 - 6\left|3 - n\right| \leq -25$



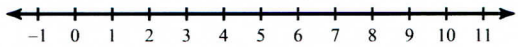
24) $\frac{\left|p\right|}{6} \geq 5$



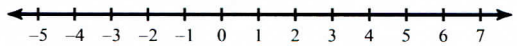
25) $\left|n\right| + 5 < 11$



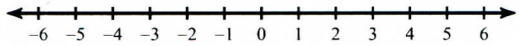
26) $8 - 5\left|k - 4\right| > -12$



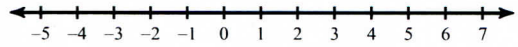
27) $\left|r + \frac{1}{2}\right| < \frac{3}{2}$



28) $\left|\frac{13}{5}b\right| \leq 13$



29) $\left|-7r\right| > -49$



30) $\left|2 + x\right| \leq -3$