

Name : Heu

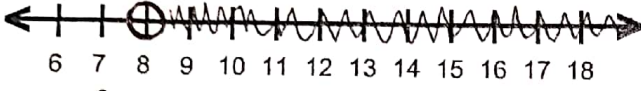
Score : _____

Teacher : _____

Date : _____

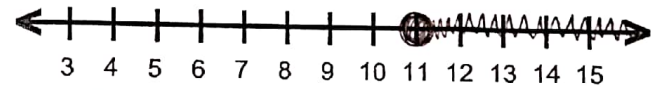
Solve and Graph the Inequalities

1) $9y - 154 > 5(6 - 2y) - 4y$



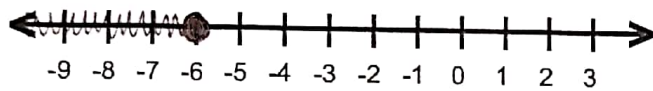
$$\begin{aligned} 9y - 154 &> 30 - 10y - 4y \\ 9y - 154 &> 30 - 14y \\ 23y - 154 &> 30 \\ 23y &> 184 \\ y &> 8 \end{aligned}$$

6) $2(4 - 5b) \leq 10b - 212$



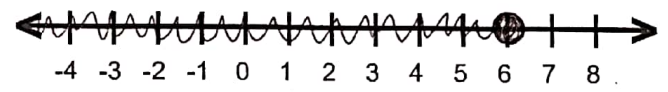
$$\begin{aligned} 8 - 10b &\leq 10b - 212 \\ -10b &\leq -212 \\ 8 - 20b &\leq -212 \\ -20b &\leq -220 \\ b &\geq 11 \end{aligned}$$

2) $4n + 3n \leq -42$



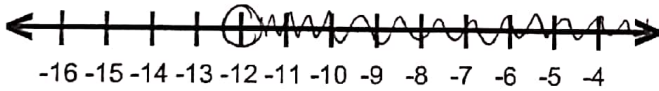
$$\begin{aligned} 7n &\leq -42 \\ n &\leq -6 \end{aligned}$$

7) $4(2 - 6s) - 3s \geq 4s - 178$



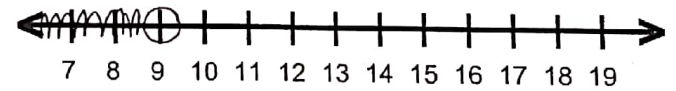
$$\begin{aligned} 8 - 24s - 3s &\geq 4s - 178 \\ 8 - 27s &\geq 4s - 178 \\ -4s &\geq -186 \\ 8 - 31s &\geq -178 \\ -31s &\geq -186 \\ s &\leq 6 \end{aligned}$$

3) $-4k - 10 + 3k < 2$



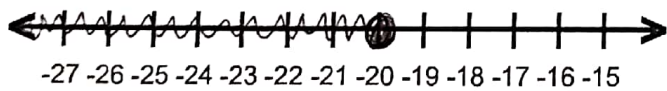
$$\begin{aligned} -k - 10 &< 2 \\ -k &< 12 \\ k &> -12 \end{aligned}$$

8) $5z - 249 < 6(5 - 4z) - 2z$



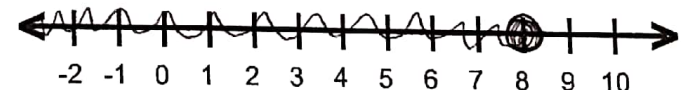
$$\begin{aligned} 5z - 249 &< 30 - 24z - 2z \\ 5z - 249 &< 30 - 26z \\ 31z &< 279 \\ z &< 9 \end{aligned}$$

4) $-210 \geq 4q - 10 + 6q$



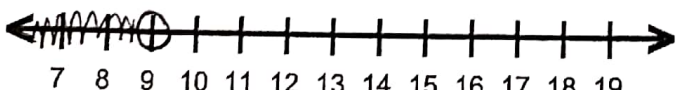
$$\begin{aligned} -210 &\geq 10q - 10 \\ -200 &\geq 10q \\ -20 &\geq q \\ q &\leq -20 \end{aligned}$$

9) $9r - 217 \leq 5(3 - 4r)$



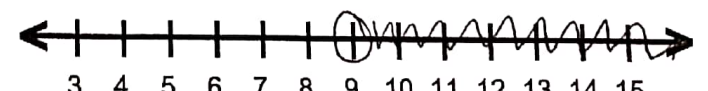
$$\begin{aligned} 9r - 217 &\leq 15 - 20r \\ 29r - 217 &\leq 15 \\ 29r &\leq 232 \\ r &\leq 8 \end{aligned}$$

5) $6(2 - 3g) > 7g - 213$



$$\begin{aligned} 12 - 18g &> 7g - 213 \\ 12 - 25g &> -213 \\ -25g &> -225 \\ g &< 9 \end{aligned}$$

10) $99 < 5h + 6h$



$$\begin{aligned} 99 &< 11h \\ 9 &< h \\ h &> 9 \end{aligned}$$