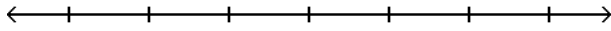


8.1 Linear Inequalities in One Variable

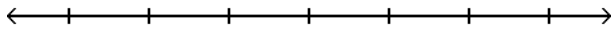
8.2 Compound Inequalities

Solve the inequality. Write the solution set in interval notation and graph it.

1) $6n - 9 > 5n - 1$



2) $-4 + 12t + 11 \geq 11t + 15$



Solve the inequality and write the solution set in interval notation.

3) $-11x \geq 44$

A) $(-\infty, 4]$

B) $(-\infty, -4]$

C) $[4, \infty)$

D) $[-4, \infty)$

3) _____

4) $4x \leq -12$

A) $[-3, \infty)$

B) $[3, \infty)$

C) $(-\infty, -3]$

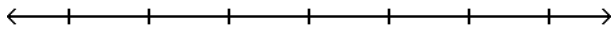
D) $(-\infty, 3]$

4) _____

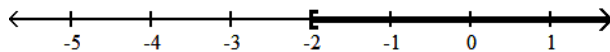
Solve the inequality. Write the solution set in interval notation and graph it.

5) $18x - 12 > 3(5x - 6)$

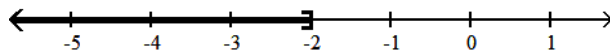
5) _____



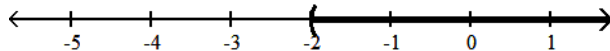
A) $[-2, \infty)$



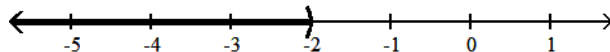
B) $(-\infty, -2]$



C) $(-2, \infty)$

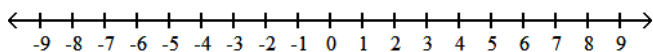


D) $(-\infty, -2)$

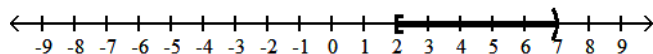


6) $10 < 5x \leq 35$

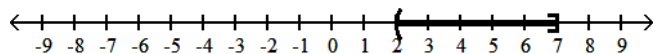
6) _____



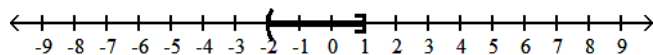
A) $[2, 7)$



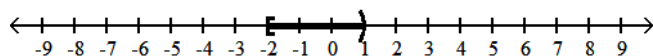
B) $(2, 7]$



C) $(-2, 1]$

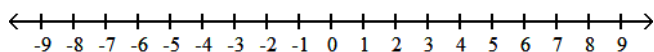


D) $[-2, 1)$

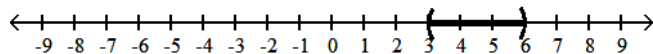


7) $7 \leq 2t + 1 \leq 13$

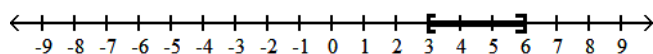
7) _____



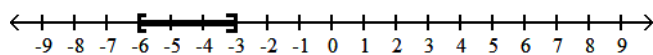
A) $(3, 6)$



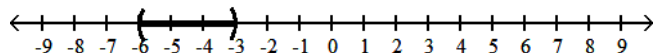
B) $[3, 6]$



C) $[-6, -3]$

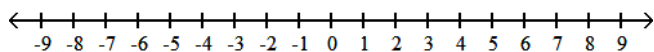


D) $(-6, -3)$

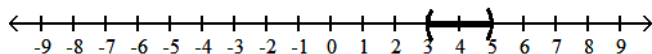


8) $-7 \leq -2z + 3 \leq -3$

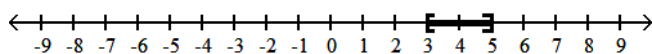
8) _____



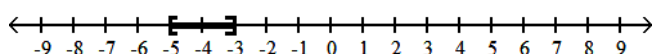
A) (3, 5)



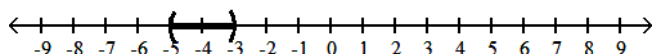
B) [3, 5]



C) [-5, -3]



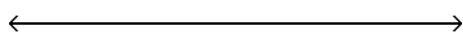
D) (-5, -3)



For the compound inequality, give the solution set in both interval and graph forms.

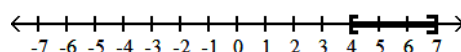
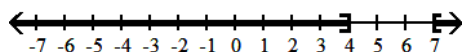
9) $x \geq 4$ and $x \leq 7$

9) _____



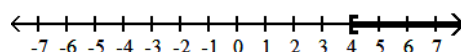
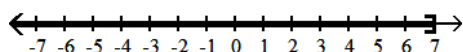
A) $(-\infty, 4] \cup [7, \infty)$

B) [4, 7]



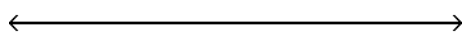
C) $(-\infty, 7]$

D) [4, ∞)



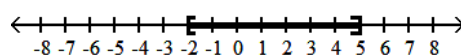
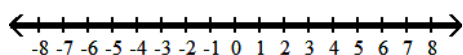
10) $x \leq -2$ and $x \geq 5$

10) _____



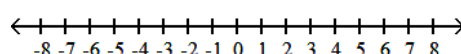
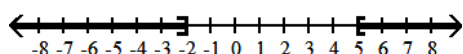
A) $(-\infty, \infty)$

B) [-2, 5]



C) $(-\infty, -2] \cup [5, \infty)$

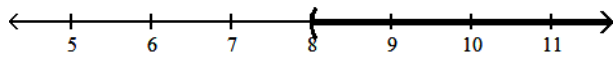
D) ϕ



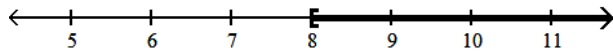
Answer Key

Testname: PRACTICE05A

1) $(8, \infty)$



2) $[8, \infty)$



- 3) B
- 4) C
- 5) C
- 6) B
- 7) B
- 8) B
- 9) B
- 10) D