

WORKSHEET 2.5 – Solving Compound Inequalities



Name: _____ Hour: _____ Date: _____

SECTION 1: Solve each “and” compound inequality, then graph it.

1) $-15 < 3x < 24$

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

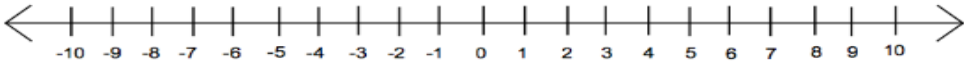
3) $1 \leq 7 - x < 17$

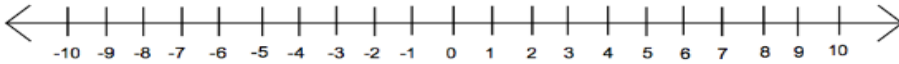
4) $2 \leq 2x + 4 < 16$

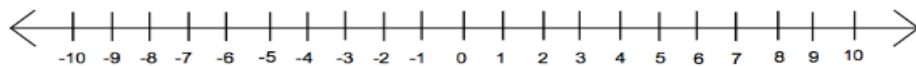
5) $-4 \leq -3x - 13 \leq 2$

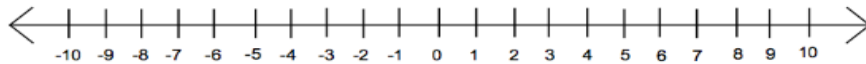
6) $6 < 4x + 8 < 10$

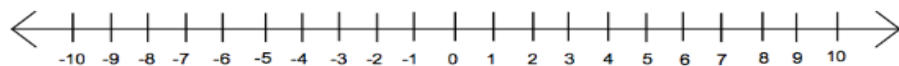
SECTION 2: Solve each “or” compound inequality, then graph it.

7) $x + 9 < 3$ or $x - 5 > 2$ 

8) $2x + 3 < -1$ or $3x - 5 \geq -2$ 

9) $-5x + 1 \leq -9$ or $3 - 2x \geq 7$ 

10) $8x - 10 \leq 14$ or $7x - 22 > 13$ 

11) $-2x - 11 > 3$ or $-8x + 1 < 9$ 

12) $4x + 8 \geq 11$ or $2x - 12 \leq -21$ 