

**1ST 5**  
Graph and solve the compound inequalities.

1)  $2x + 4 \leq 12$  or  $3x - 3 > 24$

2)  $2g < 12$  or  $3g > 24$

Inequalities Day 11

1)  $2x + 4 \leq 12$  or  $3x - 3 > 24$

$2x + 4 \leq 12$  or  $3x - 3 > 24$

$\frac{2x}{2} \leq \frac{8}{2}$  or  $\frac{3x}{3} > \frac{27}{3}$

$x \leq 4$  or  $x > 9$

$(-\infty, 4] \cup (9, \infty)$

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2)  $\frac{2g}{2} < \frac{12}{2}$  or  $\frac{3g}{3} > \frac{24}{3}$

$g < 6$  or  $g > 8$

$(-\infty, 6) \cup (8, \infty)$

$\leq \geq$   
 $< >$

Inequalities Day 11

3.  $k > 4$  or  $k < 2$ ;  $(-\infty, 2) \cup (4, \infty)$

8.  $j \geq 2$  or  $j \leq -2$ ;  $(-\infty, -2] \cup [2, \infty)$

4.  $b > 20$  or  $b < 18$ ;  $(-\infty, 18) \cup (20, \infty)$

10.  $g > -3$  or  $g < -3$ ;  $(-\infty, -3) \cup (-3, \infty)$

12.  $f > 5$  or  $f < -2$ ;  $(-\infty, -2) \cup (5, \infty)$

13.  $d > 7$  or  $d < -1$ ;  $(-\infty, -1) \cup (7, \infty)$

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15.  $a > 1$  or  $a < -2$ ;  $(-\infty, -2) \cup (1, \infty)$

16.  $z > 1.05$  or  $z < -1.95$ ;  $(-\infty, -1.95) \cup (1.05, \infty)$

17.  $c \geq 3$  or  $c \leq -1$ ;  $(-\infty, -1] \cup [3, \infty)$

18.  $h < -1$  or  $h > 2$ ;  $(-\infty, -1) \cup (2, \infty)$

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23.  $n \geq 1$  or  $n \leq 0$ ;  $(-\infty, 0] \cup [1, \infty)$

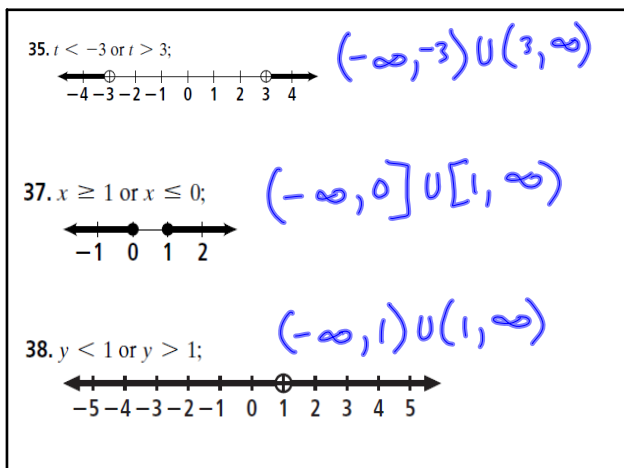
24.  $k > 3$  or  $k < 0$ ;  $(-\infty, 0) \cup (3, \infty)$

28.  $m < 3$  or  $m > 8$ ;  $(-\infty, 3) \cup (8, \infty)$

31.  $x > 0$  or  $x < -4$ ;  $(-\infty, -4) \cup (0, \infty)$

33.  $w > 7$  or  $w < -1$ ;  $(-\infty, -1) \cup (7, \infty)$

Inequalities Day 11



Inequalities Day 11

**PW 37**  
 Worksheet Solving  
 compound inequalities  
 (turn in)

**PW 38**  
 Workbook pg. 41

Inequalities Day 11