

## Solving Compound Inequalities

1.  $4m - 5 > 7$  or  $4m - 5 \leq -9$
2.  $x - 4 < 1$  and  $x + 2 > 1$
3.  $y + 6 \geq -1$  and  $y - 2 < 4$
4.  $10 - 2p > 12$  and  $7p < 4p + 9$
5.  $6 - c > c$  or  $3c - 1 \leq c + 13$
6.  $8 > 5 - 3z$  and  $5 - 3z \geq -13$
7.  $5x + 7 > 2x + 4$  or  $3x + 3 \leq 24 - 4x$
8.  $2 - 5(2y - 3) \geq 2$  or  $3y < 2(y - 8)$
9.  $5w > 4(2w - 3)$  and  $5(w - 3) + 2 < 7$
10.  $4t + 8 \geq t + 6$  or  $7t - 14 \geq 2t - 4$
11.  $3k + 1 > 10$  and  $k \neq 6$
12.  $5r - 2 \geq -17$  and  $r \neq 3$
13.  $2h + 5 \geq 2(3h + 7)$  or  $3h + 5 \leq 2h + 9$
14.  $3w - 1 \leq -5$  or  $3 > 2w - 1$
15.  $3g + 5 < -13$  or  $-5g - 7 \leq 13$
17.  $-2 < a + 1 < 3$
18.  $-5 \leq 3d + 1 < 4$
19.  $-11 < 3a + 4 \leq 7$
20.  $19 - 2x \leq 12x + 5 < 3x + 41$