

Homework 4.2

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Solve each inequality.

1) $6m + 2(6m - 8) < -40 + 6m$

2) $-3(4n + 6) \leq -6n - 12$

3) $-2(7n - 8) + 5n < -3n - 2(-5n - 8)$

4) $-5(b - 1) \leq -4(b - 4)$

Solve each compound inequality.

5) $-21 \leq -4n - 1 < 27$

6) $-24 \leq -6 + 9m \leq 57$

Simplify each expression.

7) $6p - 2(-8p - 6)$

8) $-6(x - 4) + 3$

Solve each equation.

9) $-20 - 4b = 6(1 - 5b)$

10) $2n - 8(2n - 7) = -20 + 5n$

Answers to Homework 4.2

1) $m < -2$
5) $-7 < n \leq 5$
9) $\{1\}$

2) $n \geq -1$
6) $-2 \leq m \leq 7$
10) $\{4\}$

3) $n > 0$
7) $22p + 12$

4) $b \geq -11$
8) $-6x + 27$