

Solving Compound Inequalities

Solve each inequality.

1) $6 \leq 2x < 8$

2) $-2 > 5a + 3$ and $1 + 7a \leq 15$

3) $4u > 16$ or $9 < -4u + 1$

4) $-14 < y - 11 \leq -12$

5) $7 < 6s + 1$ or $3s + 4 \geq 1$

6) $9 \leq 4v + 1 < 13$

7) $20 < 10r$ and $3 + 6r < -3$

8) $-3 < \frac{m}{4} < 5$

Solving Compound Inequalities

Answer key

Solve each inequality.

1) $6 \leq 2x < 8$

$3 \leq x < 4$

2) $-2 > 5a + 3$ and $1 + 7a \leq 15$

$a < -1$

3) $4u > 16$ or $9 < -4u + 1$

$u < -2$ or $u > 4$

4) $-14 < y - 11 \leq -12$

$-3 < y \leq -1$

5) $7 < 6s + 1$ or $3s + 4 \geq 1$

$s \geq -1$

6) $9 \leq 4v + 1 < 13$

$2 \leq v < 3$

7) $20 < 10r$ and $3 + 6r < -3$

No solution

8) $-3 < \frac{m}{4} < 5$

$-12 < m < 20$