

## Solving Equations with Inequalities.

When the coefficient of a is negative reverse the inequality.

After finding value of a, substitute into the equation to ensure the value of a makes the equation true.

$$2a - 15 > 15$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-4a + 16 < 12$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-3a - 12 < 24$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$3a + 12 < 24$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-6a + 12 < 24$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$6a - 24 < -12$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-4a - 24 < 12$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-4a + 24 < 12$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$

$$-4a - 24 < -12$$

$$\underline{\quad} a \square \underline{\quad}$$

$$a \square$$