

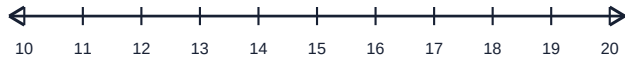
Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

One-Step Addition and Subtraction Inequalities

Solve each inequality. Show your work and graph the solution.

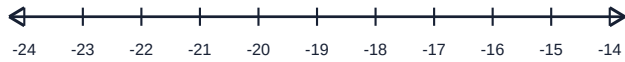
1. $r + 1 < 16$



6. $-5 > z - (-1)$



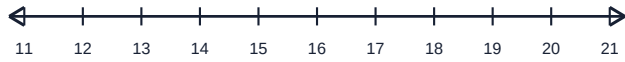
2. $m - 8 \leq -27$



7. $24 > 2 + p$



3. $-9 + y \geq 7$



8. $-25 \leq p - 10$



4. $x - 11 > -25$



9. $1 < n + (-11)$



5. $z + (-5) < 11$



10. $-15 \geq r - 9$



Math Sheet

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One-Step Addition and Subtraction Inequalities

Answer key

Solve each inequality. Show your work and graph the solution.

1. $r + 1 < 16$

$$r < 15$$

Move constants to the other side.



2. $m - 8 \leq -27$

$$m \leq -19$$

Move constants to the other side.



3. $-9 + y \geq 7$

$$y - 9 \geq 7$$

Simplify each side.

$$y \geq 16$$

Move constants to the other side.



4. $x - 11 > -25$

$$x > -14$$

Move constants to the other side.



5. $z + (-5) < 11$

$$z - 5 < 11$$

Simplify each side.

$$z < 16$$

Move constants to the other side.



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One-Step Addition and Subtraction Inequalities

Answer key

Solve each inequality. Show your work and graph the solution.

6. $-5 > z - (-1)$

$$-5 > z + 1$$

Simplify each side.

$$-1 \quad z - 5 > 1$$

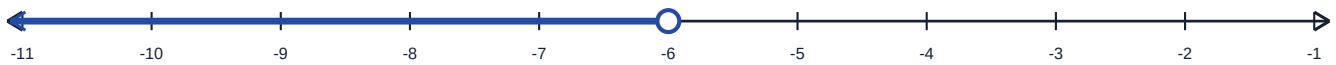
Move variable terms to one side.

$$-1 \quad z > 6$$

Move constants to the other side.

$$z < -6$$

Divide by a negative coefficient and reverse the inequality direction.



7. $24 > 2 + p$

$$24 > p + 2$$

Simplify each side.

$$-1 \quad p + 24 > 2$$

Move variable terms to one side.

$$-1 \quad p > -22$$

Move constants to the other side.

$$p < 22$$

Divide by a negative coefficient and reverse the inequality direction.



8. $-25 \leq p - 10$

$$-1 \quad p - 25 \leq -10$$

Move variable terms to one side.

$$-1 \quad p \leq 15$$

Move constants to the other side.

$$p \geq -15$$

Divide by a negative coefficient and reverse the inequality direction.



Math Sheet

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One-Step Addition and Subtraction Inequalities

Answer key

Solve each inequality. Show your work and graph the solution.

9. $1 < n + (-11)$

$$1 < n - 11$$

Simplify each side.

$$-1 \quad n + 1 < -11$$

Move variable terms to one side.

$$-1 \quad n < -12$$

Move constants to the other side.

$$n > 12$$

Divide by a negative coefficient and reverse the inequality direction.



10. $-15 \geq r - 9$

$$-1 \quad r - 15 \geq -9$$

Move variable terms to one side.

$$-1 \quad r \geq 6$$

Move constants to the other side.

$$r \leq -6$$

Divide by a negative coefficient and reverse the inequality direction.

