

Solving Linear Equations



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1. Solve for r:

$$25 = 7 + r$$

$$r =$$

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2. Solve for p:

$$2 = -1 + p$$

$$p =$$

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3. $12s \leq 4(s - 2)$

Which of the following best describes the solutions to the inequality shown above?

A. $s \leq -1$

B. $s \leq -\frac{2}{3}$

C. $s \geq -\frac{1}{4}$

D. $s \geq 8$

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4. $4c + 5 < 4c + 3$

Which of the following best describes the solutions to the inequality shown above?

A. All real numbers

B. $c < \frac{1}{2}$

C. $c > \frac{1}{4}$

D. No solution

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5.If $9 \geq 4x + 1$, which inequality represents the possible range of values of $12x + 3$?

- A. $12x + 3 \geq 17$
- B. $12x + 3 \leq 17$
- C. $12x + 3 \geq 27$
- D. $12x + 3 \leq 27$

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6.If $16 - 7w = w + 14 - 6w$, what is the value of $w - 1$?

- A. $w - 1 = -2$
- B. $w - 1 = 0$
- C. $w - 1 = 1$
- D. $w - 1 = -3$

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7. If $\frac{1}{2} + \frac{2}{5}s = s - \frac{3}{4}$, what is the value of s ?

- A. $s = \frac{3}{4}$
- B. $s = \frac{25}{12}$
- C. $s = -\frac{25}{12}$
- D. $s = -\frac{3}{4}$

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$$8. -p + 60 = -h + 10000$$

In the equation above, h is a constant.

If $p=10$ is a solution to the equation,
what is the value of h ?

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$$9.4 + 5m = 4m + 1 + m$$

Which of the following best describes the solution set to the equation shown above?

- A. The equation has exactly one solution, $m=0$.
- B. The equation has exactly one solution, $m=1$.
- C. The equation has no solutions.
- D. The equation has infinitely many solutions.

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10.If $15bx - 20 > 35$, where b is a positive constant, what is the possible range of values of $4 - 3bx$?

- A. Any value less than -7
- B. Any value greater than -7
- C. Any value less than $-\frac{11}{3bx}$
- D. Any value greater than $\frac{11}{3bx}$

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$$11. \frac{2(4p+1)}{5} \leq \frac{3+12p}{4}$$

Which of the following best describes the solutions to the inequality shown above?

- A. $p \leq -\frac{13}{7}$
- B. $p \geq -\frac{13}{7}$
- C. $p \leq -\frac{1}{4}$
- D. $p \geq -\frac{1}{4}$

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12. $-4 + bx = 2x + 3(x + 1)$

In the equation shown above, b is a constant.
For what value of b does the equation have
no solutions?

- A. 3
- B. 4
- C. 5
- D. 6

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$$13\frac{3}{2}q \leq \frac{9}{2}q - 18$$

Which of the following best describes the solutions to the inequality shown above?

- A. $q \leq 3$
- B. $q \geq 3$
- C. $q \leq 6$
- D. $q \geq 6$

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14. If $9 < 15mx - 8 < 27$, where m is a positive constant, what is the possible range of values of $\frac{8}{3} - 5mx$?

- A. Any value greater than -3 or less than -9
- B. Any value greater than -9 and less than -3
- C. Any value greater than $-\frac{7}{3m}$ or less than $-\frac{17}{15m}$
- D. Any value greater than $-\frac{17}{15m}$ and less than $-\frac{7}{3m}$

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15. If $3(r + 300) = 6$, then what is the value of $r + 300 - 2$?

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$$16.3(t + 1) = -\frac{1}{2} - 5t$$

Which of the following best describes the solution set to the equation shown above?

- A. The equation has no solutions.
- B. The equation has exactly one solution,
 $t = -\frac{7}{16}$
- C. The equation has exactly one solution,
 $t = -\frac{7}{4}$
- D. The equation has infinitely many solutions.

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17.If $5 < 2x + 3 < 11$, what is the possible range of values of $-4x - 6$?

- A. Any value greater than -10 or less than -22
- B. Any value greater than -22 and less than -10
- C. Any value greater than 1 and less than 4
- D. Any value greater than 4 or less than 1

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$$18.4|6 + 2s| - 27 \leq -3$$

Which of the following best describes the solutions to the inequality shown above?

- A. $-24 \leq s \leq 0$
- B. $-6 \leq s \leq 0$
- C. $s \leq 0$ or $s \geq 3$
- D. No solution

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$$19.4x + 1 = -ax - 4$$

In the equation shown above, a is a constant.
Which of the following values of a results in an equation with exactly one solution?

- A. 4
- B. -4
- C. Neither value
- D. Both values

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$$20.4(80 + n) = (3k)n$$

In the equation above, k is a constant. For what value of k are there no solutions to the equation?

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$$21.8 - 9(x + 1) = ax + 4$$

In the equation shown above, a is a constant.
Which of the following values of a results in an equation with exactly one solution?

- A. 9
- B. 8
- C. Neither value
- D. Both values

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$$22.2x - 1 = -1 + ax$$

In the equation shown above, a is a constant.
Which of the following values of a results in an equation with exactly one solution?

- A. 2
- B. 3
- C. Neither value
- D. Both values

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$$23.4 - 3y = 6y + 4 - 9y$$

Which of the following best describes the solution set to the equation shown above?

- A. The equation has no solutions.
- B. The equation has exactly one solution, $y = 0$.
- C. The equation has exactly one solution, $y = \frac{4}{3}$.
- D. The equation has infinitely many solutions.

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