Solving Equations

One Step   Multi-step   Absolute Value   Word problems   Formulas

Pre-Algebra
CI-Teachers Project

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Solve $3x = 12$

    3

    9

    5

    4

    7

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EGRIS

Pre-Algebra
CI-Teachers Project

Solve $\frac{1}{2}x = 10$

20

10

5

2

0

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Solve $x - 4 = 12$

3

6

9

16

20

Solve $x + 11 = 1$

-11

10

-10

11

12

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Multi-step for 100.

Solve $3x + 2 = 8$

$$\frac{8}{5}$$

$$3$$

$$4$$

$$2$$

$$\frac{3}{2}$$

Multi-step for 200.

Solve $\frac{1}{3}x - 6 = 5$

$\frac{11}{3}$

33

3

4

2

Multi-step for 300.

Solve $4x + 2 = 3x - 8$

    0

    -5

    5

    -10

    10

Pre-Algebra
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Multi-step for 400.

Solve $5x + 6 = 2x - 9$

5

-5

3

-3

2

Absolute Value for 100.

Solve $|x| = 6$

6

-6

6 and -6

3

2

Absolute Value for 200.

Solve $|x| = -3$

3

-3

3 and -3

all real numbers

no solution

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Solve $|x| + 3 = 8$

5

-5

8 and -8

5 and -5

no solution

Solve $|x - 4| = 9$

13

5

5 and -5

13 and -13

-5 and 13

Word problems for 100.

Four more than twice some number is sixteen. What is the number?

8

14

6

12

10

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Word problems for 200.

Your cell phone company charges you $20 a month and 10 cents per text. Which equation represents this situation?

$$y = x + 10$$

$$y = .20x + .10$$

$$y = 20x + 10$$

$$y = .10x + 20$$

$$y = x + 20$$

Pre-Algebra
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Word problems for 300.

Admission to the fair is $10 and each ride costs $3. Veronica brought $35 and after she paid for admission and went on the rides she had one dollar left over. How many rides did Veronica go on?

10

9

8

7

6

Word problems for 400.

Find four consecutive odd integers such that the sum of the second integer and twice the fourth integer is 65.

16, 17, 18, 19

17, 19, 21, 23

19, 21, 23, 25

20, 21, 22, 23

59, 61, 63, 65

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Formulas for 100.

Use $A = 2r$ and solve for r

$$r = 2A$$

$$r = \frac{2}{A}$$

$$r = \frac{A}{2}$$

$$r = \frac{2}{A}$$

$$r = \frac{A}{2}$$

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Formulas for 200.

Use $y = mx + b$ and solve for x

$x = my + b$

$x = by + m$

$x = y - \dfrac{b}{m}$

$x = \dfrac{y - b}{m}$

$x = m - \dfrac{y}{m}$

Formulas for 300.

Use $P = 2L + 2W$ and solve for L

$$L = P - W$$

$$L = \frac{P - 2W}{2}$$

$$L = \frac{P - W}{2}$$

$$L = \frac{P + W}{2}$$

$$L = \frac{P + 2W}{2}$$

Formulas for 400.

Use $A = \dfrac{1}{2}BH$ and solve for H

$$H = \frac{1}{2}BA$$

$$H = 2BA$$

$$H = \frac{2A}{B}$$

$$H = \frac{2B}{A}$$

$$H = \frac{A}{B}$$