#### Solving Equations

One Step Formulas Multi-step Absolute Value Word problems







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# One Step for 100.

- Solve 3x = 12

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  - Quit

# One Step for 200.

- Solve  $\frac{1}{2}x = 10$ 
  - 20
    - 10







# One Step for 300.

- Solve x 4 = 12
  - - 6
  - - 16
  - 20

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# One Step for 400.

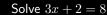
- Solve x + 11 = 1
- -11
- 10
  - -10
  - 11
  - 12

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#### Multi-step for 100.



- 8 5
  - 3
- 4
- 2
- 3
- $\frac{1}{2}$



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## Multi-step for 200.

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|--|

- 3
- 33
  - 3
- 4
- 2

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# Multi-step for 300.

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

- 0
- .
- \_
- -10
  - 10

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# Multi-step for 400.

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

- \_
- - 2
  - •
  - -3
    - 2











## Absolute Value for 100.

- Solve |x| = 6
  - 6 -6
  - 6 and -6

  - 3
    - 2



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#### Absolute Value for 200.

- Solve |x| = -3
  - 3
  - -3
  - 3 and -3
  - all real numbers
  - no solution









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- 5
- -5
- 8 and -8
- 5 and -5
  - no solution

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## Absolute Value for 400.

Solve 
$$|x-4|=9$$

- 13
- 5
- 5 and -5
- 13 and -13
  - -5 and 13

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#### Word problems for 100.

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

14

12

10

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

$$y = x + 10$$

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

$$y = 20x + 10$$

$$y = .10x + 20$$

$$y = x + 20$$



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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

- 1

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#### 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

$$r = 2A$$

$$=\frac{Z}{A}$$

$$\frac{A}{2}$$

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

$$=\frac{1}{A}$$

$$r =$$









#### Formulas for 200.



Use y = mx + b and solve for x

$$x = my + b$$

$$x = by + m$$

$$-\frac{b}{m}$$

x = y

$$\frac{y-b}{m}$$

$$x = m - \frac{s}{m}$$

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#### Formulas for 300.



$$L = P - W$$

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

$$\frac{W}{2}$$

$$\frac{\mid W}{2}$$

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



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### Formulas for 400.

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

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

$$H = 2BA$$

$$H = \frac{2B}{4}$$

$$A$$
 $A$ 

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









