

### Journal #1

What do you like about math?

What do you dislike about math?

What method works best for you when learning math?

Aug 15-8:10 AM

### Ch 3.1 Solving two-step Equations

\* See if you remember how to solve equations. Try it on your own. Then when you are done, share your process with your partner.

Ex1a)  $4x + 3 = 11$

\* How do you check your answer?

Rules:

1. Add or Subtract by doing the opposite.
2. Multiply or Divide by doing the opposite.
3. Check your answer.

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Solve and check your answer.

Ex1b)  $\frac{1}{2}x - 9 = 11$

Ex1c)  $18 - \frac{x}{4} = 22$

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Solve and Check your answer

**1 -2 + 10x = 38**

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Solve and Check your answer.

②  $\frac{3}{4}x - 5 = 10$

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Ex2) Solve and check each equation.

a)  $\frac{x+2}{9} = 5$

b)  $\frac{x-5}{2} = 10$

\*Hint multiply each side by the denominator or cross multiply.

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$$\textcircled{3} \quad \frac{a - 10}{-4} = 2$$

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Ex3a) Applications. Write an equation to model the situation then solve.

**Donations** A library receives a large cash donation and uses the funds to double the number of books it owns. Then a book collector gives the library 4028 books. After this, the library has 51,514 books. How many books did the library have before the cash donation and the gift of books?

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**Cell Phones** One cell phone plan costs \$39.95 per month. The first 500 minutes of usage are free. Each minute thereafter costs \$.35. Write a rule that describes the total monthly cost as a function of the number of minutes of usage (over 500 minutes). Then find the number of minutes of usage over 500 minutes for a bill of \$69.70.

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Ex 4) Solve for an indicated variable:

a) *Perimeter of a Square*  
Solve for  $s$ :  $P = 4s$

b) *Volume of a Circular Cone*  
Solve for  $h$ :  $V = \frac{1}{3}\pi r^2 h$

solve for  $y$ :

c)  $4y - 8 = 12x$

d)  $\frac{1}{2}y - 7 = 3x$

TRY:  $2x + 8y = 12$

Aug 14-9:15 AM