MINI LESSON #3- Solving One and Two-Step Equations (Math 7+)

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| What is the difference between an expression and an equation? | How can you check a solution for an equation to make sure it is correct? |
| Solving Equations Tips* Equations must stay balanced! If you do something to one side you must do it to the other side!
* The GOAL of solving equations is to isolate the variable.
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| One-Step EquationsSOLVE and CHECK the following Equations1. n + (-3) = -7 2. d - 15 = -4
2. -75 = 3w 4. $\frac{-f}{6}$ = 8
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| Two-Step EquationsSteps for solving 2-step equations:1. Find the variable2. Get rid of the constants by addition or subtraction3. Get rid of the term with the variable by multiplication or division4. Check your solution by plugging your answer into the original equation1. 4m - 9 = -17 2. -5m + 2 = 273. $\frac{x}{6}$ - 17 = -18 4. 8x + 7 = -17 |

Practice for Mini-Lesson #3 Solving Equations (Math 7+)

1. k - 13 = -16
2. -4 + y = -6
3. 12 - h = 14
4. $\frac{g}{-4}$ = 9
5. -10x + 30 = -120
6. $\frac{x}{-3}$ + 3 = -12

**WORD PROBLEMS**

* **Write an equation for each word problem.**
* **Solve the equation and answer the word problem.**

1. The product of-13 and x is 39.

2. A truck driver drove 478 miles on Tuesday. That was 132 miles farther than she drove on Monday. Let d represent the distance drove on Monday. How far did she drive on Monday?

4. A waitress earned $94 for 6 hours of work. The total included $46 in tips. What was her hourly wage?

3. You want to save $900 to go to Puerto Rico for spring break. You have been saving $45 each week and now has $180. Find out how many more weeks (w) it will take to have $900.