Practice for ML #1 - Solving One-Step Equations (Math 7)

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| 1. **-15 = d + 5**
2. **x – 12 = -24**

    1. **-124 = d – 93**
2. **-16 + x = 24**
3. **m – 12 = -18**
 | 1. **9b = -45**
2. -$ \frac{x}{5}$ **= 40**
3. **12 =** $\frac{n}{-3}$
4. **-8x = -32**
5. -35 + x = 45
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| **LEARNING OBJECTIVES**\_\_\_\_ I can compare equations and expressions\_\_\_\_ I understand the concept of a solution for an equation\_\_\_\_ I can use the idea of an equation acting like a balance to solve 1-step equations dealing with addition, subtraction, multiplication and division\_\_\_\_ I can solve and check 1-step equations dealing with addition, subtraction, multiplication and division **VOCABULARY**: Equation Constant Inverse Property Solution |
| **Steps for Solving Equations involving addition and subtraction****Example 1: Example 2:****x + 4 = 6 25 = d - 5** | * **GOAL**: Isolate the variable

1x = #Step 1: Locate the variableStep 2: Use Integer Subtraction rules (Keep Change Opposite)Step 3: Apply Inverse Property* Addition – Add the opposite to make ZERO
* Multiplication – divide by the same number to make 1
* division – multiply by the same number to make 1.

Step 4: CHECK your answer using SUBSTITUTION* Plug it in!!
 | **Steps for Solving Equations involving multiplication and division.****Example 3: Example 4:****240 = 4z** -$ \frac{x}{7}$ **= 20** |

**\*\*\*Remember**: An equation is like a balanced scale. If you increase or decrease the weights by the same amount on both sides, the scale will remain balanced.

**Mini-Lesson #1 – Solving One Step Equations (Math 7)**