Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_

**3.5A Solving Two-Step Equations\_Classwork**

|  |
| --- |
| ***REVIEW***Evaluate the expressions below. Show your steps1) $5∙6+4$ 2) $5+6∙4$ 3. For problem 1 and 2, did you get the same value for both expressions? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. Which operation did you perform first in each expression? Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |

***Vocabulary***

Chose the best term from the list to complete each sentence.

**\*isolate the variable \*equation \*inverse operations**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are mathematical operations that undo each other.
2. To solve an equation you need to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a mathematical statement that two expressions are equivalent.

***Solve Two-Step Equations:***

1. use order of operations to simply PEMDAS

2. use distributive property 2(x+3) = 2x + 6 to simplify

3. undo ADDITION/SUBTRACTION (remove constant terms)

4. undo the MULTIPLICATION/DIVISION (to remove coefficient)



*Solve each equation. Show your check.*

|  |  |
| --- | --- |
| 1. $15x+3=48$ **Check**
 | 1. $\frac{t}{4}-10=-6$ **Check**
 |
| 1. $\frac{b}{3}+13=11$ **Check**
 | 1. $9g+11=2$ **Check**
 |
| 1. $3.2x-4=12$ **Check**
 | 1. $\frac{m}{3}+2.7=5$ **Check**
 |
| 1. $-16+\frac{n}{4}=-32$ **Check**
 | 1. $-g+1.5=2$ **Check**
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