Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My CEUA 3A is on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**CEUA 3A STUDY GUIDE** Mrs. Zunich

**Directions**: Below is a guide to study from for your CEUA 3A. Make sure you have your answers to the problems check.

**\*\* If you have any questions about the problems below. PLEASE stay with Mrs. Zunich.**

1. Pythagorean Theorem



\_\_\_\_\_\_\_\_\_+\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Solve for finding the missing leg. | Solve for finding the missing hypotenuse.  |



1. Write algebraic expressions for the examples below. REMEMBER TO USE THE CUBES STRATEGY TO ANNOTATE!!
2. Nine less than twice a number. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 17 and the sum of four times a number. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. The difference between 39 and twice a number. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Fill in the multi-step equation steps and solve the multi-step equations below.

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| Steps for Solving Multi-step Equations |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( ).
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ like terms on the same side.
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ variable to one side of the equation.
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_ constant to the other side.
 |
| 1. Multiply or Divide.
 |

1. $-2=3k+4$ c. $5k-2=2(4k+2)$
2. $5+10\left(x+2\right)=35 $ d. $5k-2=8k+4$
3. Mrs. Zunich solved the equation, $b+3+2 \left(b+3\right)=57. $ Her work is shown below. Is she correct or incorrect? Explain your answer.



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. When I verify an equation, I plug my solution into the given equation. For the examples below. **SOLVE AND VERIFY** the equations.

|  |
| --- |
| **Steps for verifying equations** |
| **Step 1:** Rewrite \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ equation. |
| **Step 2:** \_\_\_\_\_\_\_\_\_ in your \_\_\_\_\_\_\_\_\_\_\_\_\_into the variable place.  |
| **Step 3:** Follow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (DO THE \_\_\_\_\_\_\_\_\_\_\_\_\_\_!) |
| **Step 4:** Make sure each \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. |

$a. -2=3k+4$ c. $5k-2=2(4k+2)$

$b. 5+10\left(x+2\right)=35 $ d. $5k-2=8k+4$