

Neat and Picky Algebraic Format Rules To Live By!!!

By: Rebecca and Emily

Rule #1

1. Equation

2. Solution

3. Result

❖ Show each step in solving the equation. The solving action is clearly written under each equation. The result is your next equation line.

❖ Ex: $\frac{8x}{8} = \frac{-32}{8}$

$x = -4$



✓ Check
 $8(-4) = -32$

Rule #2

❖ Write in a vertical arrangement so that your solution is the last line.

❖ Ex: $5x + 2 = 17$

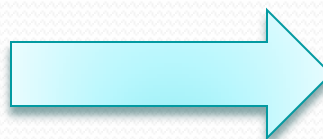
$$\begin{array}{r} 5x + 2 = 17 \\ -2 \quad -2 \\ \hline 5x = 15 \\ 5 \quad 5 \\ \hline x = 3 \end{array}$$

1. Equation

2. Solution

3. Result

$$x = 3$$



✓ Check

$$5(3) + 2 = 17$$

$$\underline{(15) + 2 = 17}$$

Rule #3

❖ Equal signs must be lined up.

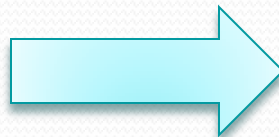
❖ Ex: $9x - 5 = 58$

$$\begin{array}{r} + 5 \quad + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9x = -63 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 9 \end{array}$$

$$x = -7$$



✓ Check

$$9(-7) - 5 = -68$$

$$\underline{(-63) - 5 = -68}$$





Rule #4



- ❖ Balance your equation! Whatever you do to one side of the equation you must do to the other side.

- ❖ Ex: $7x + 13 = 48$

$$\begin{array}{r} -13 \quad -13 \\ \hline 7x = 35 \\ \hline 7 \quad 7 \end{array}$$

$$x = 5$$



✓ Check

$$7(5) + 13 = 48$$

$$\underline{(35) + 13 = 48}$$

Rule #5

❖ The solution must be written with the variable on the left of the equal sign.

❖ Ex: $9x + 57 = -42$

$$\begin{array}{r} 9x + 57 = -42 \\ -57 \quad -57 \\ \hline \end{array}$$

$$\begin{array}{r} 9x = -99 \\ \hline x = -11 \end{array}$$

$x = -11$

Variable	Equal Sign	Solution
x	$=$	-83

✓ Check

$$9(-11) + 57 = -42$$

$$\underline{(-99) + 57 = -42}$$



Rule #6

❖ You must show a check! Substitute your solution to show it works. Your answer will always be correct if the check works. Use check!!!

❖ Ex: $\frac{-13x}{-13} = \frac{-26}{-13}$

$x = 2$



✓ Check
 $\frac{-13(2)}{-13} = \frac{-26}{-13}$





Rule #7



❖ Write neatly!!!

❖ Ex: $3x + 4 = 31$

$$\begin{array}{r} -4 \quad -4 \\ \hline \end{array}$$

$$\begin{array}{r} 3x = 27 \\ \hline 3 \quad 3 \end{array}$$

$$x = 9$$



✓ Check

$$3(9) + 4 = 31$$

$$\underline{(27) + 4 = 31}$$

Thanks For Watching!!!

