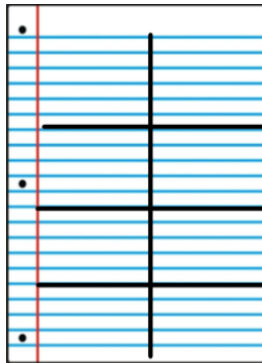


## Start working on the Spiral Review (due Monday).

You must write the problem down and show all work in your spiral/comp book as shown below.



Sep 24-3:46 PM

### Solving two-step equations

In a two-step equation, the variable is multiplied/divided by a number and there is a number either added or subtracted to the variable term.

**Example:**  $-5x + 3.5 = 9.5$  (the variable is multiplied by  $-5$  and  $3.5$  is added to the variable term)

To solve a two-step equation, do the inverse (or opposite) of the addition or subtraction *first*, followed by the inverse (or opposite) of the multiplication or division.

The first step is to subtract  $3.5$  from both sides of the equation. The second step is to divide both sides by  $-5$ . Show your work below.

$$\begin{array}{r}
 \boxed{-5x + 3.5 = 9.5} \\
 \underline{-3.5 \quad -3.5} \\
 -5x = 6 \\
 \underline{-5 \quad -5} \\
 x = -0.3
 \end{array}$$

Sep 23-12:58 PM

You Try!

Copy each equation. Solve and check each problem. Show all work!!

1.  $4x - 3 = -19$   $4(-4) - 3 = -19$   
 $-16 - 3 = -19$

$$\begin{array}{r} 4x - 3 = -19 \\ +3 \quad +3 \\ \hline 4x = -16 \\ \frac{4}{4} \quad \frac{4}{4} \\ \hline x = -4 \end{array}$$

2.  $-2x + 8 = 10$   $-2(-1) + 8 = 10$   
 $2 + 8 = 10$

$$\begin{array}{r} -2x + 8 = 10 \\ -8 \quad -8 \\ \hline -2x = 2 \\ \frac{-2}{-2} \quad \frac{2}{-2} \\ \hline x = -1 \end{array}$$

3.  $\frac{x}{5} + 11 = 13$

$$\begin{array}{r} \frac{x}{5} + 11 = 13 \\ -11 \quad -11 \\ \hline \frac{x}{5} = 2 \\ \frac{5}{5} \cdot \frac{x}{5} = \frac{2 \cdot 5}{5} \\ \hline x = 10 \end{array}$$

4.  $3.5a - 2.2 = 4.8$

$$\begin{array}{r} 3.5a - 2.2 = 4.8 \\ +2.2 \quad +2.2 \\ \hline 3.5a = 7 \\ \frac{3.5}{3.5} \quad \frac{7}{3.5} \\ \hline a = 2 \end{array}$$

$\frac{10}{5} + 11 = 13$

Sep 23-12:59 PM

### Combining like terms

$x - 1 + 5x = 23$

$$\begin{array}{r} x - 1 + 5x = 23 \\ 6x - 1 = 23 \\ \frac{6x}{6} - \frac{1}{6} = \frac{23}{6} \\ \frac{6x}{6} = \frac{23}{6} + \frac{1}{6} \\ \frac{6x}{6} = \frac{24}{6} \\ \hline x = 4 \end{array}$$

$-49 = 6c - 13 - 4c$

$$\begin{array}{r} -49 = 6c - 13 - 4c \\ +13 \quad +13 \\ \hline -36 = 2c \\ \frac{-36}{2} = \frac{2c}{2} \\ \hline -18 = c \end{array}$$

✓  $4 - 1 + 20 = 23$   
 $3 + 20 = 23$

Sep 24-3:50 PM

Write an equation to model each situation. Then solve the equation.

General admission tickets to the fair cost \$3.50 per person. Ride passes cost an additional \$5.50 per person. Parking costs \$6 for the family. The total costs for ride passes and parking was \$51. How many people in the family attended the fair?

$3.50p + 5.50p + 6 = 51$ ; 5 people

$$\begin{array}{r} 9p + 6 = 51 \\ -6 \quad -6 \\ \hline 9p = 45 \\ \div 9 \quad \div 9 \\ p = 5 \end{array}$$



Sep 24-4:03 PM

Distributive Property

$$\begin{array}{r} -5(x - 3) = -25 \\ \boxed{-5x} + \cancel{15} = -25 \\ -15 \\ \hline -5x = -40 \\ \div 5 \quad \div 5 \\ x = 8 \end{array}$$

$$\begin{array}{r} -15 = 5(3q - 10) - 5q \\ -15 = \boxed{15q} - 50 - \boxed{5q} \\ -15 = \boxed{10q} - 50 \\ +50 \quad +50 \\ \hline \boxed{7} = \frac{35}{10} = \frac{10}{10}q \end{array}$$

✓  $-5(8-3) = -25$   
 $-5(5) = -25$

Sep 24-4:04 PM

-For all problems reworked, students must show all work proving their new answer (if "work" is not required, a detailed explanation or model is required).

-Students must also include an "error analysis" for each problem missed. The analysis explains in writing what mistake was made for the problem on the original test. The following "error analysis" responses will not be accepted:

- I solved the problem incorrectly.
- I didn't know how to do it.
- I guessed.

-All work must be completed in pencil, solved out neatly, answer circled, and completed on separate sheet of paper set up as shown below:

		Name
		Period
Rework	Error Analysis	

You have the opportunity to earn 10 Formative points for correctly reworking your problems.

Rework is due FRIDAY!

~\

10 / 10  
 9 / 10  
 8 / 10  
 7 / 10

-The rework piece of notebook paper must be stapled to the front (on top) of the original test.

-The reworked test must be turned in on the due date stated. No late reworks will be accepted unless there has been an excused absence.

Sep 24-4:06 PM

Homework

Tear out Pearson page 47 / 1 - 21 odd (11 Problems)

Work must be shown in your spiral/comp notebook as shown below:


8 Boxes max on each side of paper  
 You must copy each problem down and algebraically work each problem. Don't forget to check your work.

Equation quiz this Friday

Mangahigh  
 Due Sun 9/30

Solve linear equations

Due Mon - Spiral Review

Due Mon - Sect 1 Test corrections

Solve linear equations involving parentheses

Sep 24-4:13 PM