

Russell County Schools Non-Traditional Instructional Expectations

Day: 5

School: RCHS

Course/Subject: Algebra I

Teacher: Pam Wilson

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Class Blog: pamwilson.wordpress.com

Learning Target: Testing values for viable solution.

Lesson Expectations: Test given points. Attach work paper.

$$\textcircled{6} \quad 2x + 5y = -2$$

Test (-6, 2)

$$\begin{aligned} 2(-6) + 5(2) & \stackrel{?}{=} -2 \\ -12 + 10 & = -2 \\ -2 & \neq 2 \end{aligned}$$

not a solution.

Test (5, -2)

$$\begin{aligned} 2(5) + 5(-2) & \stackrel{?}{=} -2 \\ 10 + -10 & = -2 \\ -2 & = -2 \end{aligned}$$

true solution. ✓

Test $(-\frac{1}{2}, -\frac{1}{5})$

$$\begin{aligned} 2(-\frac{1}{2}) + 5(-\frac{1}{5}) & \stackrel{?}{=} -2 \\ -1 + -1 & = -2 \\ -2 & = -2 \end{aligned}$$

true solution! ✓

Test (-3, 1)

$$\begin{aligned} 2(-3) + 5(1) & = -2 \\ -6 + 5 & \neq -2 \\ \text{Not a solution.} \end{aligned}$$

Test (-1, 0)

$$\begin{aligned} 2(-1) + 5(0) & = -2 \\ -2 + 0 & = -2 \quad \checkmark \text{ Yes!} \end{aligned}$$

Test $(0, \frac{2}{5})$

$$\begin{aligned} 2(0) + 5(\frac{2}{5}) & = -2 \\ 0 + 2 & = -2 \quad \text{No!} \end{aligned}$$

Test $(\frac{3}{2}, -1)$

$$\begin{aligned} 2(\frac{3}{2}) + 5(-1) & \\ 3 + -5 & \\ -2 & = -2 \quad \checkmark \text{ Yes!} \end{aligned}$$

For Alternate Assignment Options:

Visualpatterns.org

Which One Doesn't Belong Website: wodb.ca

Estimation180.com

Desmos.com

For Supplemental Resources/Support: pamwilson.wordpress.com

For Teacher Support: pam.wilson@russell.kyschools.us

***Reminder: Assignments are due back to teachers within 2 school days.**

Find The Message

TO FIND THE HIDDEN MESSAGE, FOLLOW THESE DIRECTIONS:

Each row across has 7 rectangles. Only 4 of them contain solutions of the equation or inequality at the beginning of that row. CIRCLE these 4 solutions.

Over each solution you have circled, notice the number and letter. The number tells you where to put the letter in the boxes at the bottom of the page. You will spell out a five-word message.

| | | | | | | | |
|---------------------------|---------|--------------------|--------------------------------|--------------------|-------------------------------|--------------------|---------------------|
| ① $2x + y = 5$ | 12-T | 5-O | 19-E | 17-S | 7-V | 24-D | 11-R |
| | (2, 1) | (-2, 9) | (-1, 3) | (3, -1) | (0, 4) | (-1, 7) | (4, -2) |
| ② $3x - y = -1$ | 22-M | 11-E | 3-L | 21-O | 9-I | 18-U | 19-A |
| | (1, 2) | (2, 7) | (-2, -3) | (-1, -2) | (0, 1) | (3, -5) | (-3, -8) |
| ③ $2x + 3y \geq 0$ | 7-S | 15-R | 18-E | 10-S | 2-O | 22-U | 8-N |
| | (-1, 2) | (0, -1) | (3, 0) | (-2, 1) | (5, -3) | (0, 0) | (2, -2) |
| ④ $-3x + 2y = 4$ | 8-L | 20-P | 13-O | 23-L | 3-W | 15-O | 6-N |
| | (2, 5) | $(0, \frac{1}{2})$ | $(1, \frac{7}{2})$ | $(\frac{2}{3}, 1)$ | $(\frac{-1}{3}, \frac{3}{2})$ | (-2, -1) | (-1, 3) |
| ⑤ $-x - 5y < 1$ | 12-C | 10-K | 4-T | 6-Y | 23-N | 16-A | 20-R |
| | (-1, 0) | (0, 2) | (-7, 1) | (-5, 1) | $(1, \frac{2}{5})$ | (-3, -1) | (2, 3) |
| ⑥ $2x + 5y = -2$ | 4-B | 14-F | 16-R | 20-F | 1-C | 4-T | 14-H |
| | (-6, 2) | (5, -2) | $(\frac{-1}{2}, \frac{-1}{5})$ | (-3, 1) | (-1, 0) | $(0, \frac{2}{5})$ | $(\frac{3}{2}, -1)$ |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|