

**-Russell County Schools Non-Traditional Instructional Expectations**

Day: 7

School: RCHS

Course/Subject: Algebra I

Teacher: Pam Wilson

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Learning Target:

CCSS: F.BF.1

Students will add and subtract polynomials.

Lesson Expectations:

ex:

$$(11m^3 + 4m^2 - 7m) + (3m^2 + 3m - 8)$$

Look for Like Terms.

$$11m^3 \quad 4m^2 + 3m^2 \quad -7m + 3m \quad + 8$$

combine.

$$\boxed{11m^3 + 7m^2 - 4m + 8}$$

ex:

$$(11m^3 + 4m^2 - 7m) - (3m^2 + 3m - 8)$$

$$11m^3 - 0m^3 \quad 4m^2 - 3m^2 \quad -7m - 3m \quad 0 - -8$$

$$\boxed{11m^3 + 1m^2 - 10m + 8}$$

\* notice there was no  $m^3$  term to subtract from  $11m^3$  in 2nd polynomial. And there was no constant term in 1st polynomial to subtract  $-8$  from. So we

used placeholder.

For Alternate Assignment Options:

[Visualpatterns.org](http://Visualpatterns.org)

Which One Doesn't Belong Website: [wodb.ca](http://wodb.ca)

[Estimation180.com](http://Estimation180.com)

[Desmos.com](http://Desmos.com)

For Supplemental Resources/Support: [pamwilson.wordpress.com](http://pamwilson.wordpress.com)

For Teacher Support: [pam.wilson@russell.kyschools.us](mailto:pam.wilson@russell.kyschools.us)

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

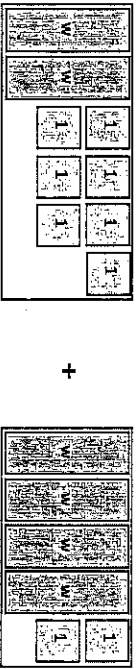
Name \_\_\_\_\_

Date \_\_\_\_\_

**Polynomial Addition and Subtraction - Independent Practice Worksheet**

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. Use algebra tiles to add  $(2w + 7) + (4w + 2)$



Combine like terms.

2. Use algebra tiles to add  $(4t + 4) + (7t + 1)$



Combine like terms.

**A. Subtract**

- 3.  $(3k^2 + 7k + 4) - (k^2 + 5)$
- 4.  $(8b^2 + 2b + 6) - (b^2 + 3)$
- 5.  $(10q^2 + 5q + 5) - (q^2 + 1)$
- 6.  $(9n^2 + 4n + 2) - (n^2 + 7)$

**B. Add**

- 7.  $(9z^2 + 4z + 6) + (5z + 7)$
- 8.  $(5p^2 + 2p + 3) + (8p + 7)$
- 9.  $(6y^2 + 8y + 4) + (10y + 2)$
- 10.  $(11w^2 + 7w + 5) + (9w + 3)$



WORK / Thinking space: