# Performance Task # 2

**Name:** _____ **Grade 8 Section:** _____

**Teacher:** _____ **Date:** _____

| ***Lesson Title/ Topic:*** | ***Addition and Subtraction of Monomials, Binomials and Multinomials*** |
|---|---|

A. **Instruction:** Find the sum or difference of the following monomials.

| | |
|---|---|
| 1. $2x + (-5x)$ | 2. $-2a^2 - (-6a^2)$ |
| 3. $y + (-y)$ | 4. $-9x^2y^3 - (-9x^2y^3)$ |
| 5. $12ab^2 - ab^2$ | 6. $-16mn^3 + (-12mn^3)$ |
| 7. $10a^2b^3 - (-8\ a^2b^3) + a^2b^3$ | 8. $7xy + 4xy - (-21xy)$ |
| 9. $-8m^2n^2 + 7\ m^2n^2 - 15m^2n^2$ | 10. $-b^2c^3 + (-b^2c^3) - (-b^2c^3)$ |

B. **Instructions:** Find the sum or difference of the given binomials in Column A and it with its corresponding answer in Column B. Write the letter before each number. Show your solution

| Column A | Column B |
|---|---|
| _____ 1. $(5a - 7b) - (2a - 5b)$ | A. $2a + 11b$ |
| _____ 2. $(5a - 7b) + (2a - 5b)$ | B. $a - 12b$ |
| _____ 3. $(-9a + 3b) - (-11a - 8b)$ | C. $-7a - 4b$ |
| _____ 4. $(-9a + 3b) + (-11a - 8b)$ | D. $7a - 12b$ |
| _____ 5. $(-3a - 8b) - (4a - 4b)$ | E. $-3a - 6b$ |
| _____ 6. $(-3a - 8b) + (4a - 4b)$ | F. $3a - 2b$ |
| _____ 7. $(a - 5b) - (6a - 2b) + (2a - 3b)$ | G. $3a + 6b$ |
| _____ 8. $(a + 5b) + (-6a+2b) - (-2a - 3b)$ | H. $-20a - 5b$ |
| _____ 9. $(a - 5b) + (-6a-2b) - (-2a - 3b)$ | I. $-3a + 10b$ |
| _____ 10. $(a - 5b) + (6a - 2b) - (2a - 3b)$ | J. $5a - 4b$ |
| | K. $-3a - 4b$ |

C. **Instructions:** Find the sum or the difference of the multinomials in Box 1. Then write the letter on the blank for the multinomial that corresponds to your answer in Box 2 to decode the famous person who said the mentioned inspiring quote.

*"Keep away from people who try to belittle your ambitions. Small people always do that, but real great people make you feel that you too can become great."*

**Box 1**

| R | I | A |
|---|---|---|
| $(-5y^2 + 11y) + (8y^2 - 13y)$ | $(10 + 11y) - (9 - 8y)$ | $(-3a^3b^2c - 3ab - 5) + (4a^3b^2c - 7ab - 18)$ |

| W | N | M |
|---|---|---|
| $(-3a^3b^2c - 3ab - 5) - (4a^3b^2c - 7ab - 18)$ | $(10 + 11y) + (9 - 8y)$ | $(-5y^2 + 11y) - (8y^2 - 13y)$ |

| K | A | T |
|---|---|---|
| $(4a - 16) + (-9a - 4)$ | $(4a - 16) - (-9a - 4)$ | $(-6b^2c + 12bc + 5) + (-3b^2c + 7$ -4 |

**Box 2**

| ____ | ____ | ____ | ____ |
|---|---|---|---|
| $-13y^2 + 24y$ | $13a - 12$ | $3y^2 - 2y$ | $-5a - 20$ |

| ____ | ____ | ____ | ____ | ____ |
|---|---|---|---|---|
| $-9b^2c + 19bc + 1$ | $-7a^3b^2c + 4ab + 13$ | $a^3b^2c - 10ab - 23$ | $1 + 19y$ | $19 + 3y$ |