Performance Task # 3

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

Teacher: _____   **Date:** _____

A. Perform the indicated operation.

1) $(2n^2)(8n^5)$

2) $(6k^5)(-11k^2)$

3) $(-u^3)(3v^3)$

4) $(9x^4y^3z^4)(2xy^6z)$

5) $(-12mn^4)(7m^4n)$

6) $\dfrac{-24d^5e^8f^9}{4d^2e^7f^3}$

7) $\dfrac{45x^4y^5z^2}{9x^2y^7z}$

8) $\dfrac{-63a^3b^{11}}{-9a^6b^8}$

9) $\dfrac{d^3e^2f^6}{d^3e^2f^6}$

10) $\dfrac{-45x^4y^7z^9}{5x^2y^7z^{10}}$

11) $(-11a^2b^2c)(2abc - 5ab^2c)$

12) $(9j^3k^4l^2)(-3j^2k^3l + 4jk)$

13) $(8x)(2xy + 5y - 4)$

14) $(12ab^3)(-2a - 5a^2b^2 + 3a^3b)$

15) $(4m^3n)(-8m - 5n + 6)$

16) $\dfrac{-72x^3y^2 - 48x^2y}{-8x^2y}$

17) $\dfrac{a^8b^6 + a^5b^3}{a^3b^3}$

18) $\dfrac{x^8y^4z^2 + x^4y^5z^3 - x^2y^2z^2}{x^2y^2z^2}$

19) $\dfrac{-32b^5c^4 - 40b^3c^6 - 8b^6c^3}{-8b^3c^2}$

20) $\dfrac{12x^3y - 18x^5y^2 + 15x^4y^4}{3x^2y}$

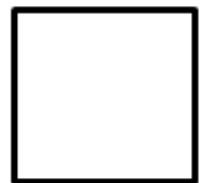21) $(x + 6)(x + 8)$

22) $(x - 1)(x - 7)$

23) $(x - 8)(x + 5)$

24) $\dfrac{x^2 + 10x + 21}{x + 3}$

25) $\dfrac{x^2 + 9x - 36}{x - 3}$

B. Solve the following problems.

1. What is the area of a square whose side is $3x - 2$?

3x - 2

2. The height of a triangle is $2x + 4$, and its base is equal to its height. Find its area.

2x + 4

2x + 4