8th Grade Assignment Sheet ----- POD B

Date 5-10-13

Science: **Shari Hudgeons** **Book:** Yes (No)

Egg Drop Project

Math: **Katie Johnson** **Book:** Yes (No)

Pre-Test worksheet

Communications: **Sandi Armbruster** **Book:** Yes (No)

Decorate envelope

post-test

Social Studies: **Larry Criddle** **Book:** (Yes) No

Maps
Essays final class period

NAME _____ DATE _____ PERIOD _____

7 Chapter 7 Test, Form 2C

SCORE _____

Simplify.

1. $3y^5 \cdot y^3$ 1. _____

2. $(9m^3n^5)(-2mn^2)$ 2. _____

3. $(w^5y^4)^3$ 3. _____

4. $4a^3n^6 + 4(a^3n)^6 + 4(an^2)^3$ 4. _____

For Questions 5–7, simplify. Assume that no denominator is equal to zero.

5. $\frac{p^6q^2}{p^3q}$ 5. _____

6. $\frac{16r^3s^{-5}}{4r^{-1}s^2}$ 6. _____

7. $\frac{(-8x^2y^2)^2}{(4x^3y)^3}$ 7. _____

8. Find the degree of the polynomial $2x^3y^3 + 4xy - 10x^3y$. 8. _____

9. Arrange the terms of the polynomial $4 + 3x^3y^3 - x^5y + xy$ so that the powers of x are in descending order. 9. _____

Find each sum or difference.

10. $(5n^2 - 2ny + 3y^2) - (9n^2 - 8ny - 10y^2)$ 10. _____

11. $(11m^2 - 2mn + 8n^2) + (8m^2 + 4mn - 2n^2)$ 11. _____

12. $(x^2 + 5y) - (2x^2 + 6y)$ 12. _____

13. Write an expression for the perimeter of a rectangle whose length is 3 more than twice its width. 13. _____

NAME _____ DATE _____ PERIOD _____

7 Chapter 7 Test, Form 2C *(continued)*

Find each product.

14. $5hk^2(2h^2k - hk^3 + 4h^2k^2)$ — 14. _____

15. $(4x^2 + 2y^2)(2x^2 - y^2)$ — 15. _____

16. $(3s + 5)(2s^2 - 8s + 6)$ — 16. _____

17. $(5c - 4)^2$ — 17. _____

18. $(7a - 3b)(7a + 3b)$ — 18. _____

19. $(4n + 1)^2$ — 19. _____

20. A pink snapdragon has two genes that determine its color. There is a white gene W and a red gene R. The parent snapdragons only pass along one gene for color to an offspring. The offspring will be red, pink, or white. Write an expression for the genetic makeup of 2 pink snapdragon offspring. — 20. _____

José has \$20,000 to invest. He invests x dollars at 4% and the rest at 4.5%.

21. Write an equation for the total amount of money T José will have in one year. — 21. _____

22. Suppose at the end of the year, José has \$20,860. How much money did José invest in each account? — 22. _____

For Questions 23 and 24, solve each equation.

23. $-6(3n - 2) = 4(-3 - 2n)$ — 23. _____

24. $8n + 11 = 4 + 5(2n - 1)$ — 24. _____

25. **GARDENING** The length of a rectangular garden is 8 feet longer than the width. The garden is surrounded by a 4-foot sidewalk. The sidewalk has an area of 320 square feet. Find the dimensions of the garden. — 25. _____

Bonus If you multiply $(x + 1)^{20}$, how many terms will there be? (*Hint*: Look for a pattern in the smaller powers of $(x + 1)$.) — **B:** _____