

1/13/15

"Star Wars Trivia Game"

~~Algebra 2: Chapter 5 Laws of Exponents Quiz Review~~

Algebra 2: Chapter 5
Laws of Exponents Quiz Review

• Ea. row goes board
• 2 probs for ea. row.

Name

* Keyz

$\frac{12}{15}$ or better

gives entire class
bonus pt. on
tomorrow's quiz

Simplify the following. No negative exponents or decimals in final answers.

1. $y^7 \cdot y^3 \cdot y^2 = \boxed{y^{12}}$

2. $(-5n^6)^3 = \boxed{-125n^{18}}$

3. $\frac{12m^8y^6}{-9my^4} = \boxed{\frac{4m^7y^2}{-3}}$

4. $(4a^3c^2)^2(3a^2c) = \boxed{48a^8c^5}$

5. $\frac{(-3ac^4)^2}{(4a^2c^3)^2} = \boxed{\frac{9a^2c^8}{16a^4c^6} = \frac{9a^6c^2}{16}}$

6. $(5e^{-9}f^{-2})(-2e^2f^4)^3 = \boxed{\frac{-40e^{-3}f^{10}}{e^3}}$

7. $\frac{(3g^2h^3)^2(g^{-3}h)}{(7g^{-3}h)^2} = \boxed{\frac{9g^7h^5}{49}}$

8. $\frac{(8x^3z^2)(4x^{-5}z)}{(2xz^3)(7x^{-5}z^6)} = \boxed{\frac{16x^2}{7z^6}}$

9. $(2m^3n^2p^5)^6(5m^{-3}n^6p^{-4})^2 = \boxed{1600m^{12}n^{24}p^{22}}$

$\frac{64}{320} = \frac{1280}{1600}$

10. $\frac{(m^4n^6)^4}{(3m^2n^8)^3} = \boxed{\frac{m^{16}n^{24}}{27m^6n^{24}} = \frac{m^{10}}{27}}$

11. $\frac{(2t^{-3}v^2)^2}{(5tv^3)^2(3t^{-8}v)} = \boxed{\frac{4t^{-6}v^4}{75t^{-6}v^7} = \frac{4}{75v^3}}$

$\frac{81}{486} = \frac{810}{1296}$

12. $(-9x^{-5}y)^2(4x^3y^{-2})^2 = \boxed{\frac{1296x^4y^2}{x^4y^2}}$