

Name: _____ Date: _____ Period: _____

Chapter 8 Practice 1

Simplify. Assume that no denominator is equal to zero.

1. $\frac{5^8}{5^2}$

2. $\frac{x^{12}}{x^4}$

3. $\frac{x^3}{x^9}$

4. $\frac{x^4 y^2}{x y^4}$

5. $\frac{b}{b^3}$

6. $\frac{6d^9}{3d^6}$

7. $\frac{10n^8}{35n}$

8. $\frac{w^2 u^8}{w^5 u}$

9. $\frac{a^2 b^3}{ab^8}$

10. $\frac{m^5 n}{m^2 n^8}$

11. $\frac{-18w^5 u^2}{6w^2 u}$

12. $\frac{40x^2 z^5}{4xyz^8}$

13. $b^3 \cdot b^5 \cdot b^8$

14. $y^4 \cdot y^6$

15. $5b^6 \cdot 5b$

16. $x^3 \cdot x$

17. $7ab^3 \cdot 3b$

18. $m^5(m^6)(m^4)$

19. $k^0(k^3)(k^4)$

20. $\frac{h^0}{4}$

21. $\frac{f^8}{f^3}$

22. $\left(\frac{16p^5 q^2}{2p^3 q^3}\right)^0$

23. $\frac{f^4 g^9}{f^2}$

24. $\frac{15x^5 y^{11}}{5xy^1}$

25. $\frac{10w^0 u^3}{5u^{13}}$

26. $\frac{12y^6 z^2}{-6xy^9 z^6}$

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Simplify. Assume that no denominator is equal to zero.

1. $\frac{w^8}{w^4}$

2. $\frac{d^4f^6}{df}$

3. $\frac{x^4y^6}{xy^7}$

4. $\frac{a^4bc}{b^4c}$

5. $\frac{3c^5d^2}{8cd}$

6. $\frac{12y^7z^6}{4y^{12}z^{15}}$

7. $\frac{14h^4g}{8h^6}$

8. $\frac{21w^3x^8}{7w^7x}$

9. $\frac{30c^4}{24c^5}$

10. $3x^5(y^4)(2x^2)$

11. $r(q^5)(r^9)$

12. ab^0

13. $\frac{12w}{5w^3}$

14. $3x^3(-2y^5)(4x^8)$

15. $\frac{27r^7s^3}{9r^4s^3}$

16. $\frac{wu^8}{5u^3}$

17. $\frac{18c^4d^6f^2}{4c^3d^3f^6}$

18. $\frac{-8t^4u^2v^3}{2t^2uv^2}$

19. $\frac{6f^2g^3f^5}{54f^2g^5g^3}$

20. $\left(\frac{x^3y^5}{4^3}\right)^0$

21. $\frac{r^5}{3r}$

22. $\frac{m^4n^8}{m^2n^5}$

23. $\frac{j^6k^3}{j^3k^6}$

24. $\frac{a^3ba}{7a^2b^4}$

25. $5xy^3z^2 \cdot 3x^3yz^4$

26. $\frac{14c^3d^3}{7c^6de^4}$

27. $\frac{2x^6y^3z}{8x^8yz^5}$