

Name: _____ Date: _____ Period: _____

Chapter 8 Practice 1

Simplify. Assume that no denominator is equal to zero.

1. $\frac{6^5}{6^4}$

2. $\frac{9^{12}}{9^8}$

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

4. $\frac{r^3 s^2}{r^3 s^4}$

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

6. $\frac{9d^7}{3d^6}$

7. $\frac{12n^5}{36n}$

8. $\frac{w^4 u^3}{w^4 u}$

9. $\frac{a^3 b^5}{ab^2}$

10. $\frac{m^7 n^2}{m^3 n^2}$

11. $\frac{-21w^5 u^2}{7w^4 u^5}$

12. $\frac{32x^8 y^2 z^5}{-8xyz^2}$

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

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

15. $3b^2 \cdot 4b$

16. $x^6 \cdot x$

17. $4ab^3 \cdot 2a^3 b$

18. $m^1(l^6)(m^3)$

19. $k^0(k^4)(k^6)$

20. $\frac{h^3}{h^6}$

21. $\frac{f^7}{f^4}$

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

23. $\frac{f^5 g^4}{f^2}$

24. $\frac{15x^6 y^9}{5xy^{11}}$

25. $\frac{15w^0 u^1}{5u^3}$

26. $\frac{48x^6 y^7 z^5}{-6xy^5 z^6}$

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Simplify. Assume that no denominator is equal to zero.

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

2. $\frac{a^4b^6}{ab^3}$

3. $\frac{xy^2}{xy}$

4. $\frac{m^5np}{m^4p}$

5. $\frac{5c^2d^3}{-4c^2d}$

6. $\frac{8y^7z^6}{4y^6z^5}$

7. $\frac{4h^3g}{8h^6}$

8. $\frac{6w^5x^4}{7w^6x}$

9. $\frac{-4c^2}{24c^5}$

10. $x^3(y^5)(x^8)$

11. $r(q^2)(r^3)$

12. 12^0

13. $\frac{6w}{8w^3}$

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

15. $\frac{22r^3s^2}{11r^2s^3}$

16. $\frac{-15wu^1}{5u^3}$

17. $\frac{8c^3d^2f^4}{4c^1d^2f^3}$

18. $\frac{-12t^1u^5v^4}{2t^3uv^5}$

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

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

21. $\frac{r^4}{3r}$

22. $\frac{m^2n^5}{m^4n^3}$

23. $\frac{j^1k^3}{j^3k^3}$

24. $\frac{a^2b}{5a^2b^4}$

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

26. $\frac{7c^3d^3}{c^5de^4}$

27. $\frac{2x^3y^2z}{3x^4yz^2}$