

PRACTICE: PRODUCT RULE, QUOTIENT RULE, AND ZERO POWER RULE

Name: _____

Date: _____ Class: _____

Write each expression in simplest form.

1. $\frac{7b^3c^2}{c^2} \cdot \frac{4bc^2c^6}{14b^0c(c^3)}$

2. $6x^6y^4[3x^5y(xy^2)^0]$

3. $\frac{m^8n^{12}p^{16}}{2mn^3p^6\left(\frac{m^4}{m}\right)}$

4. $abc^0 \cdot 6ab$

5. $\frac{\frac{k^7}{k^3}}{jk^2k^2}$

6. $\frac{e^4gh^9h^6}{fgh^3}$

7. $\frac{t^5}{w^6} \cdot \frac{v^{12}w^{15}}{vw^3} \cdot \frac{t^7}{tv^3}$

8. $r^2s^7q^8(rs^2)$

9. $\frac{16x^5y^{10}}{5xy^2} \cdot \frac{5x^2}{2x^3y}$

10. $k^5mn^0p^5\left(\frac{5kn^6np^4}{m^2}\right)$



$$11. \frac{a^2b^3c}{3ab^2}$$

$$12. d^4ef^5g^8(ef^2g^0h^6)$$

$$13. \frac{m^{12}n^2}{mn^8} \cdot \frac{mn^5p^7}{n^3p^2}$$

$$14. j^6k^4 \left(\frac{6j^5k^9(j^8k)}{2jk^2} \right)$$

$$15. \frac{x^5yz^{18}}{xz^3} \left(\frac{y^9z^4}{y^3z^2} \right)^0$$

$$16. \frac{35n^6}{n^2(5n^2)}$$

$$17. fg^2h^0(g^3h^6)(f^5gh)$$

$$18. \frac{\left(\frac{12sr^6}{r^3} \right)}{4sr^2}$$

$$19. \frac{5u^8v^3w}{u^2v^2w} (u^6vw)$$

$$20. r^8st^3q^5[(3qr^6s^{12}t^9)7rs^4]$$

