Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_

**Extra Exponents Practice**

Simplify.

1) $3∙4^{3}$ (2) $4x^{3}∙2x^{3}$ (3) $x^{5}∙x^{2}$ (4) $2x^{3}∙2x^{2}$

5) $\frac{6^{5}}{6^{3}}$ (6) $\frac{x^{4}}{x^{7}}$ (7) $8^{0}$ (8) $-\left(9x\right)^{0}$

9) $\left(y^{4}\right)^{3}$ (10) $\left(x^{2}y\right)^{4}$ (11) $\frac{6x^{7}}{2x^{4}}$ (12) $\frac{8x^{5}}{4x^{2}}$

13) $\left(2cd^{4}\right)^{2}\left(cd\right)^{5}$ (14) $\left(2fg^{4}\right)^{4}\left(fg\right)^{6}$ (15) $\frac{x^{5}y^{6}}{xy^{2}}$

16) $\frac{x^{2}y^{5}}{xy^{4}}$ (17) $\left(\frac{4x^{5}y}{16xy^{4}}\right)^{3}$ (18) $\left(\frac{5x^{3}y}{20xy^{5}}\right)^{4}$ (19) $y^{-7}$

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_

**Extra Exponents Practice**

Simplify.

20) $7^{-2}$ (21) $\frac{1}{x^{-5}}$ (22) $\frac{1}{2^{-5}}$ (23) $x^{5}∙x^{-1}$

24) $x^{-6}$ (25) $x^{9}∙x^{-7}$ (26) $\left(j^{-13}\right)\left(j^{4}\right)\left(j^{6}\right)$

27) $\frac{x^{-1}}{x^{-8}}$ (28) $\frac{52x^{6}}{13x^{-7}}$ (29) $f^{-3}\left(f^{2}\right)\left(f^{-3}\right)$ 30) $\frac{x^{-4}}{x^{-9}}$

(31) $\frac{24x^{6}}{12x^{-8}}$ (32) $\frac{32x^{2}y^{-3}}{12x^{6}y^{3}}$ (34) $\frac{2x^{4}y^{-7}}{8x^{7}y^{3}}$ 35) $\left(4x^{4}y^{-4}\right)^{3}$

36) $5x^{2}y\left(2x^{4}y^{-3}\right)$ (37) $\left(\frac{-7a^{2}b^{3}c^{0}}{3a^{3}b^{4}c^{3}}\right)^{-4}$ (38) $\left(\frac{-2a^{3}b^{2}c^{0}}{3a^{2}b^{3}c^{7}}\right)^{-2}$