Exponents

Name:_____ Date:_____

Evaluate the Exponents.

1) $4x^6 \times 5y^{-3}$ = _____

2) $7m^5 \times 4m^{-4}$ = _____

3) $\left(\frac{7}{9}\right)^{10} \times \left(\frac{7}{9}\right)^{-2}$ = _____

4) $2rs^9 \times 3r^{-5}s^{-4}$ = _____

5) $4a^3 \times 7a^{-6} \times 2a^{-10}$ = _____

6) $2mn^{-8} \times 3m^4n^2$ = _____

7) $\left(\frac{1}{6b}\right)^{-5} \times \left(\frac{1}{10b}\right)^2$ = _____

8) $b^2 \times 3b^{-8} \times 2b^3$ = _____

9) $12y^8 \times 3y^{-3}$ = _____

10) $\left(\frac{1}{7}\right)^4 \times \left(\frac{1}{7}\right)^2$ = _____

11) $11a^{-7} \times 4a^{11}$ = _____

12) $14p^9 \times 2p^{-6}$ = _____

13) $13y^5 \times 2y^2$ = _____

14) $\left(\frac{12p}{4p}\right)^{-8} \times \left(\frac{16p}{2p}\right)^{10}$ = _____

15) $\left(\frac{6}{3b}\right)^{-9} \times \left(\frac{9}{3b}\right)^2$ = _____

16) $m^7 \times m^{-11}$ = _____

Exponents

Name:_____ Date:_____

Evaluate the Exponents.

1) $4x^6 \times 5y^{-3} = \frac{20x^6}{y^3}$

2) $7m^5 \times 4m^{-4} = 28m$

3) $\left(\frac{7}{9}\right)^{10} \times \left(\frac{7}{9}\right)^{-2} = \left(\frac{7}{9}\right)^{8}$

4) $2rs^9 \times 3r^{-5}s^{-4} = \frac{6s^5}{r^4}$

5) $4a^3 \times 7a^{-6} \times 2a^{-10} = \frac{56}{a^{13}}$

6) $2mn^{-8} \times 3m^4n^2 = \frac{6m^5}{n^6}$

7) $\left(\frac{1}{6b}\right)^{-5} \times \left(\frac{1}{10b}\right)^{2} = \frac{6^5b^3}{10^2}$

8) $b^2 \times 3b^{-8} \times 2b^3 = \frac{6}{b^3}$

9) $12y^8 \times 3y^{-3} = 36y^5$

10) $\left(\frac{1}{7}\right)^{4} \times \left(\frac{1}{7}\right)^{2} = \left(\frac{1}{7}\right)^{6}$

11) $11a^{-7} \times 4a^{11} = 44a^4$

12) $14p^9 \times 2p^{-6} = 28p^3$

13) $13y^5 \times 2y^2 = 26y^7$

14) $\left(\frac{12p}{4p}\right)^{-8} \times \left(\frac{16p}{2p}\right)^{10} = \frac{8^{10}}{3^8}$

15) $\left(\frac{6}{3b}\right)^{-9} \times \left(\frac{9}{3b}\right)^{2} = \frac{3^2b^7}{2^9}$

16) $m^7 \times m^{-11} = \frac{1}{m^4}$