

# Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Evaluate the Exponents.

1)  $\frac{16b^8c^{-2}}{32b^{-4}c} =$  \_\_\_\_\_

2)  $\frac{9x^{14}y^{-12}}{45x^2} =$  \_\_\_\_\_

3)  $\frac{12a^4b}{28a^{-8}b^2} =$  \_\_\_\_\_

4)  $\frac{3m^{-6}n^2}{24m^2n^{-12}} =$  \_\_\_\_\_

5)  $\frac{15a^5}{3a^{-2}} =$  \_\_\_\_\_

6)  $\frac{rs}{2r^{-10}s^{-11}} =$  \_\_\_\_\_

7)  $\frac{7a^2b^2c^{-4}}{35a^{-2}b^{-5}} =$  \_\_\_\_\_

8)  $\frac{9x^{-7}y^{-9}}{3x^2y^2} =$  \_\_\_\_\_

9)  $\frac{12a^6c^{-4}}{32ac^{-2}} =$  \_\_\_\_\_

10)  $\frac{49y^{14}}{56y^{-4}} =$  \_\_\_\_\_

11)  $\frac{20ab^{-6}}{40a^{-6}b^2} =$  \_\_\_\_\_

12)  $\frac{48d^{-12}}{26d^5} =$  \_\_\_\_\_

13)  $\frac{36m^{-5}}{8m} =$  \_\_\_\_\_

14)  $\frac{6m^{-9}n^{-3}}{36m^2n^7} =$  \_\_\_\_\_

15)  $\frac{28r^{-5}s^3}{20r^{-2}s^5} =$  \_\_\_\_\_

16)  $\frac{7a^{-8}b^6}{21a^5b^{10}} =$  \_\_\_\_\_

# Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Evaluate the Exponents.

1)  $\frac{16b^8c^{-2}}{32b^{-4}c} = \frac{b^{12}}{2c^3}$

2)  $\frac{9x^{14}y^{-12}}{45x^2} = \frac{x^{12}}{5y^{12}}$

3)  $\frac{12a^4b}{28a^{-8}b^2} = \frac{3a^{12}}{7b}$

4)  $\frac{3m^{-6}n^2}{24m^2n^{-12}} = \frac{n^{14}}{8m^8}$

5)  $\frac{15a^5}{3a^{-2}} = 5a^7$

6)  $\frac{rs}{2r^{-10}s^{-11}} = \frac{r^{11}s^{12}}{2}$

7)  $\frac{7a^2b^2c^{-4}}{35a^{-2}b^{-5}} = \frac{a^4b^7}{5c^4}$

8)  $\frac{9x^{-7}y^{-9}}{3x^2y^2} = \frac{3}{x^9y^{11}}$

9)  $\frac{12a^6c^{-4}}{32ac^{-2}} = \frac{3a^5}{8c^2}$

10)  $\frac{49y^{14}}{56y^{-4}} = \frac{7y^{18}}{8}$

11)  $\frac{20ab^{-6}}{40a^{-6}b^2} = \frac{a^7}{2b^8}$

12)  $\frac{48d^{-12}}{26d^5} = \frac{24}{13d^{17}}$

13)  $\frac{36m^{-5}}{8m} = \frac{9}{2m^6}$

14)  $\frac{6m^{-9}n^{-3}}{36m^2n^7} = \frac{1}{6m^{11}n^{10}}$

15)  $\frac{28r^{-5}s^3}{20r^{-2}s^5} = \frac{7}{5r^3s^2}$

16)  $\frac{7a^{-8}b^6}{21a^5b^{10}} = \frac{1}{3a^{13}b^4}$