

# Exponents

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

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

## Evaluate the Exponents.

1)  $\frac{4c^{-2}}{3c} = \frac{4}{3c^3}$

2)  $\frac{4x^{-2}y^2}{3x^{-2}} =$  \_\_\_\_\_

3)  $\frac{ab}{a^{-2}b^2} =$  \_\_\_\_\_

4)  $\frac{3m^2n^2}{2m^2n^2} =$  \_\_\_\_\_

5)  $\frac{7^5}{7^3} =$  \_\_\_\_\_

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

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

8)  $\frac{9x^{-2}y^{-2}}{4x^2y^2} =$  \_\_\_\_\_

9)  $\frac{10c^{-2}}{c^{-2}} =$  \_\_\_\_\_

10)  $\frac{y^2}{y^{-4}} =$  \_\_\_\_\_

11)  $\frac{10ab^{-6}}{5a^{-4}b^2} =$  \_\_\_\_\_

12)  $\frac{7d^{-2}}{d^5} =$  \_\_\_\_\_

13)  $\frac{7^{-5}}{7^3} =$  \_\_\_\_\_

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

15)  $\frac{4r^5s^{-3}}{20r^{-2}s^5} =$  \_\_\_\_\_

16)  $\frac{7a^5b^6}{21a^5b^2} =$  \_\_\_\_\_

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## Evaluate the Exponents.

$$1) \quad \frac{4c^{-2}}{3c} = \frac{4}{3c^3}$$

$$2) \quad \frac{4x^{-2}y^2}{3x^{-2}} = \frac{4y^2}{3}$$

$$3) \quad \frac{ab}{a^{-2}b^2} = \frac{a^3}{b}$$

$$4) \quad \frac{3m^2n^2}{2m^2n^2} = \frac{3}{2}$$

$$5) \quad \frac{7^5}{7^3} = 7^2$$

$$6) \quad \frac{rs}{2r^2s^2} = \frac{1}{2rs}$$

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

$$8) \quad \frac{9x^{-2}y^{-2}}{4x^2y^2} = \frac{9}{4x^4y^4}$$

$$9) \quad \frac{10c^{-2}}{c^{-2}} = 10$$

$$10) \quad \frac{y^2}{y^{-4}} = y^6$$

$$11) \quad \frac{10ab^{-6}}{5a^{-4}b^2} = \frac{2a^5}{b^8}$$

$$12) \quad \frac{7d^{-2}}{d^5} = \frac{7}{d^7}$$

$$13) \quad \frac{7^{-5}}{7^3} = \frac{1}{7^8}$$

$$14) \quad \frac{12m^4n^{-3}}{3m^2n^2} = \frac{4m^2}{n^5}$$

$$15) \quad \frac{4r^5s^{-3}}{20r^{-2}s^5} = \frac{r^7}{5s^8}$$

$$16) \quad \frac{7a^5b^6}{21a^5b^2} = \frac{b^4}{3}$$