

# Exponents

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

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

## Evaluate the Exponents.

1)  $\frac{s}{s^{-3}}$  = \_\_\_\_\_

2)  $\frac{9r^6n^3}{8rn^5}$  = \_\_\_\_\_

3)  $\frac{6x^3}{3x^4z^6}$  = \_\_\_\_\_

4)  $\frac{ba}{7b^{-3}a^{-2}}$  = \_\_\_\_\_

5)  $6c^3 \times 5c^{-7} \times c^{-8}$  = \_\_\_\_\_

6)  $8m^3n^2 \times 7m^6n^2$  = \_\_\_\_\_

7)  $\left(\frac{3}{5y}\right)^3 \times \left(\frac{3}{6y}\right)^3$  = \_\_\_\_\_

8)  $n^2 \times n^{-6} \times n^{-3}$  = \_\_\_\_\_

9)  $5z^2 \times 4z^4$  = \_\_\_\_\_

10)  $\frac{6^{-6}}{6}$  = \_\_\_\_\_

11)  $\frac{12n}{10n^{-3}}$  = \_\_\_\_\_

12)  $\frac{6r^4s^2}{18r^{-4}s^6}$  = \_\_\_\_\_

13)  $4n^2 \times 6n^4$  = \_\_\_\_\_

14)  $\left(\frac{4y}{2y}\right)^4 \times \left(\frac{2y}{y}\right)^6$  = \_\_\_\_\_

15)  $\left(\frac{4}{6a}\right)^4 \times \left(\frac{4}{6a}\right)^4$  = \_\_\_\_\_

16)  $\frac{12m^{-4}}{8m^5}$  = \_\_\_\_\_

# Exponents

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## Evaluate the Exponents.

- 1)  $\frac{s}{s^{-3}} = \underline{s^4}$
- 2)  $\frac{9r^6n^3}{8rn^5} = \underline{\frac{9r^5}{8n^2}}$
- 3)  $\frac{6x^3}{3x^4z^6} = \underline{\frac{2}{xz^6}}$
- 4)  $\frac{ba}{7b^{-3}a^{-2}} = \underline{\frac{b^4a^3}{7}}$
- 5)  $6c^3 \times 5c^{-7} \times c^{-8} = \underline{\frac{30}{c^{12}}}$
- 6)  $8m^3n^2 \times 7m^6n^2 = \underline{56m^9n^4}$
- 7)  $\left(\frac{3}{5y}\right)^3 \times \left(\frac{3}{6y}\right)^3 = \underline{\left(\frac{27}{1000y^6}\right)}$
- 8)  $n^2 \times n^{-6} \times n^{-3} = \underline{\frac{1}{n^7}}$
- 9)  $5z^2 \times 4z^4 = \underline{20z^6}$
- 10)  $\frac{6^{-6}}{6} = \underline{\frac{1}{6^7}}$
- 11)  $\frac{12n}{10n^{-3}} = \underline{\frac{6n^4}{5}}$
- 12)  $\frac{6r^4s^2}{18r^{-4}s^6} = \underline{\frac{r^8}{3s^4}}$
- 13)  $4n^2 \times 6n^4 = \underline{24n^6}$
- 14)  $\left(\frac{4y}{2y}\right)^4 \times \left(\frac{2y}{y}\right)^6 = \underline{2^{10}}$
- 15)  $\left(\frac{4}{6a}\right)^4 \times \left(\frac{4}{6a}\right)^4 = \underline{\left(\frac{2}{3a}\right)^8}$
- 16)  $\frac{12m^{-4}}{8m^5} = \underline{\frac{3}{2m^9}}$