

## Properties of Exponents Worksheet

Name \_\_\_\_\_ Class Period \_\_\_\_\_

### I. Evaluate the expression.

1.  $(2^5)(2^3)$

2.  $\frac{4^7}{4^3}$

3.  $(-7x)^2(-7x)^4$

4.  $(5y^{-2})^2$

5.  $\frac{8m^{-4}}{8m^2}$

6.  $(4^0w^2)^{-5}$

7.  $(2m^3n^{-1})(8m^4n^{-2})$

8.  $\frac{x^5y^{-8}}{x^5y^{-6}}$

II. Write an expression that makes the statement true.

9.  $(a^4b^{-3}c^5)(?) = a^8bc^{10}$

10.  $\frac{?}{x^2y^6z} = \frac{x}{y^2}$

III. Describe and correct the error.

11.  $\frac{x^{10}}{x^2} = x^5$

12.  $(x^5)(x^3) = x^{15}$