

## Multiplying Exponents

$$x^m \cdot x^n = x^{m+n}$$

Directions: Find the value of each expression.

1.  $4^3 \cdot 4^2$

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

Directions: Simplify each expression.

3.  $b^3 \cdot b^4$

4.  $e^5 \cdot e^{11}$

5.  $(4a)(6a^2)$

6.  $(5x^2)(-3x^4)$

7.  $\left(\frac{2}{3}x^7y^8\right)\left(\frac{15}{4}x^{12}\right)$

8.  $(-9z)(8z^4)(-z^7)$