

Name \_\_\_\_\_ Date \_\_\_\_\_

**Number  
Unit 2 Line Master 4**

**Power of a Product**

Simplify each expression.

1.  $(1 \times 4)^4 = 1 \times 4$

2.  $(2 \times 5)^3$

3.  $(5 \times 3)^2$

4.  $(3 \times 4)^5$

5.  $(10^3 \cdot 4^2)^1$

6.  $(5^2 \cdot 3^1)^3$

7.  $(3^2 \times 2^3)^3$

8.  $(7^2 \times 5^3)^8$

9.  $(2^2 \times 3^5)^0$

10.  $(3^2 \cdot 3^1)^2$

11.  $-(2^2 \times 2^5)^3$

12.  $(5^5 \times 5^3)^4$

13.  $(1^2 \times 1^5)^{10}$

14.  $(3x)^6$

15.  $(ab)^m$

What do you notice? What do you wonder?

Do you have any conjectures?