

**Number
Unit 3 Line Master 6****Product of Powers**

Write each product as a power.

1. $5^2 \times 5^3 = 5$

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

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

4. $8^6 \cdot 8^{15}$

5. $(-2)^0 \times (-2)^5$

6. $(-6)^3 \cdot (-6)^2$

7. $(-1)^3(-1)^8$

8. $5^{-1} \cdot 5^2$

9. $3^{-2} \cdot 3^4$

10. $2^{-3} \times 2^{-3}$

11. $4^3 \times 2^{-1}$

12. $7^{-3} \times 7^{11} \times 7^2$

13. $x^6 \cdot x^5$

14. $y^{-2} \cdot y^5$

15. $a^m \cdot a^n$

What do you notice? What do you wonder?

Do you have any conjectures?