

Number
Unit 3 Line Master 8**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. $((-8)^6 \cdot (-2)^{-3})^4$

11. $(3^2 \cdot 3^1)^2$

12. $-(2^2 \times 2^5)^3$

13. $(5^5 \times 5^3)^4$

14. $(1^2 \times 1^5)^{10}$

15. $(3x)^6$

16. $(ab)^m$

What do you notice? What do you wonder?

Do you have any conjectures?