

Multiplying with 0 and 1

Zero and one have special multiplication properties.

The Identity (One) Property of Multiplication	The Zero Property of Multiplication
When you multiply a number and 1, the product is that number. Examples: $4 \times 1 = 4$ $16 \times 1 = 16$ $1 \times 9 = 9$ $13 \times 1 = 13$ $251 \times 1 = 251$ $1 \times 48 = 48$	When you multiply a number and 0, the product is 0. Examples: $5 \times 0 = 0$ $123 \times 0 = 0$ $17 \times 0 = 0$ $0 \times 58 = 0$ $0 \times 51 = 0$ $74 \times 0 = 0$

1. $1 \times 2 = \underline{\hspace{2cm}}$

2. $0 \times 3 = \underline{\hspace{2cm}}$

3. $4 \times 1 = \underline{\hspace{2cm}}$

4. $8 \times 0 = \underline{\hspace{2cm}}$

5. $6 \times 1 = \underline{\hspace{2cm}}$

6. $1 \times 7 = \underline{\hspace{2cm}}$

7.
$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 10 \\ \times 0 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$$

Complete each number sentence. Write $<$, $>$, or $=$ for each \bigcirc .

13. $8 \times 2 \bigcirc 4 \times 4$

14. $19 \times 1 \bigcirc 37 \times 0$

15. $7 \times 2 \bigcirc 13 + 1$

Complete each number sentence. Write \times or $+$ for each \bigcirc .

16. $5 \bigcirc 0 = 5$

17. $5 \bigcirc 1 = 6$

18. $1 \bigcirc 5 = 5$

19. **Write a Problem** Write a multiplication sentence that shows the Zero Property of Multiplication. Explain why it shows this property.
