

Name: _____

Associative Property of Multiplication

The *Associative Property of Multiplication* states that the product of a set of numbers is the same, no matter how they are grouped.

Example:

$$\begin{aligned}(2 \times 3) \times 4 &= 4 \times (3 \times 2) \\ 6 \times 4 &= 4 \times 6 \\ 24 &= 24\end{aligned}$$

Part 1: Tell whether the products of the sets of numbers are equal or not equal.
Write an "equals sign" (=) on the line if the sets have equal products.
Write a "not equals sign" (\neq) if the sets have unequal products.

a. $(3 \times 4) \times 2$ _____ $3 \times (4 \times 2)$

b. $(2 \times 2) \times 3$ _____ $2 \times (3 \times 3)$

c. $12 \times (6 \times 0)$ _____ $(12 \times 6) \times 0$

d.

Pa



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e. $(2 \times 6) \times 2$ = $2 \times (6 \times 2)$

f. $(2 \times 5) \times 2$ = $2 \times (5 \times 2)$

g. $(4 \times 7) \times 1$ = $4 \times (7 \times 1)$

h. $(3 \times 3) \times 4$ = $3 \times (3 \times 4)$

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$$6 \times 4 = 4 \times 6$$

$$24 = 24$$

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Write an "equals sign" (=) on the line if the sets have equal products.
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a. $(3 \times 4) \times 2$ = $3 \times (4 \times 2)$

b. $(2 \times 2) \times 3$ \neq $2 \times (3 \times 3)$

c. $(2 \times 6) \times 0$ = $(12 \times 6) \times 0$

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 36 36