

Multiplication - associative property

Grade 4 Math Worksheet

In multiplication, the way in which the numbers are grouped in a problem does not change the product of those numbers.

Example: $(3 \times 4) \times 5 = 3 \times (4 \times 5)$

Use the associative property to fill the missing values.

Does the associative property apply to addition questions? Answer and show an example.



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¹⁾
$$(\underline{6} \times 3) \times 8 = (\underline{8} \times 3) \times 6$$

²⁾ $(76 \times \underline{3}) \times 9 = (\underline{9} \times 3) \times 76$
³⁾ $(\underline{4} \times 87) \times 17 = 17 \times (\underline{87} \times 4)$
⁴⁾ $\underline{9} \times (14 \times 90) = 90 \times (\underline{14} \times 9)$
⁵⁾ $(89 \times \underline{43}) \times 8 = 8 \times (\underline{89} \times 43)$
⁶⁾ $(\underline{5} \times 7) \times 6 = (\underline{7} \times 5) \times 6$
⁷⁾ $(\underline{37} \times 46) \times 87 = (\underline{46} \times 37) \times 87$
⁸⁾ $\underline{6} \times (38 \times 59) = \underline{59} \times (6 \times 38)$
⁹⁾ $\underline{57} \times (4 \times 52) = (4 \times 57) \times \underline{52}$
¹⁰⁾ $5 \times (52 \times 4) = 52 \times (4 \times 5)$

Does the associative property apply to addition questions? Answer and show an example.

Yes, the associative property can be applied for addition questions. (2+8)+6=10+6=162+(8+6)=2+14=16