



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.

1) $(_ \times 3) \times 8 = (_ \times 3) \times 6$

2) $(76 \times _) \times 9 = (_ \times 3) \times 76$

3) $(_ \times 87) \times 17 = 17 \times (_ \times 4)$

4) $_ \times (14 \times 90) = 90 \times (_ \times 9)$

5) $(89 \times _) \times 8 = 8 \times (_ \times 43)$

6) $(_ \times 7) \times 6 = (_ \times 5) \times 6$

7) $(_ \times 46) \times 87 = (_ \times 37) \times 87$

8) $_ \times (38 \times 59) = _ \times (6 \times 38)$

9) $_ \times (4 \times 52) = (4 \times 57) \times _$

10) $_ \times (52 \times 4) = 52 \times (_ \times 5)$

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



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

Use the associative property to fill the missing values.

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) $\underline{5} \times (52 \times 4) = 52 \times (\underline{4} \times 5)$

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

Yes, the associative property can be applied for addition questions.

$$(2 + 8) + 6 = 10 + 6 = 16$$

$$2 + (8 + 6) = 2 + 14 = 16$$