

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.

$$^{3)}$$
 ___ × (17 × 63) = 63 × (___ × 55)

$$^{4)}$$
 (4 × 6) × = 9 × (4 ×)

$$^{9)}$$
 60 × (6 ×) = × (4 × 6)

$$^{10)}$$
 5 × (_ × 43) = 5 × (_ × 8)

Does the associative property apply to multiplication questions with a zero in them?

Answer and show an example.



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Use the associative property to fill the missing values.

1)
$$(47 \times 8) \times 82 = 82 \times (8 \times 47)$$

$$^{2)}$$
 (2 × 5) × 4 = (5 × 4) × 2

$$^{3)}$$
 $55 \times (17 \times 63) = 63 \times (17 \times 55)$

⁴⁾
$$(4 \times 6) \times 9 = 9 \times (4 \times 6)$$

⁵⁾
$$(53 \times 6) \times 5 = 6 \times (53 \times 5)$$

6)
$$(7 \times 60) \times 79 = (79 \times 7) \times 60$$

$$^{7)}$$
 7 × (44 × 8) = 44 × (8 × 7)

8)
$$4 \times (71 \times 44) = 71 \times (44 \times 4)$$

$$^{9)}$$
 60 × (6 × 4) = 60 × (4 × 6)

$$^{10)}$$
 5 × ($\frac{8}{8}$ × 43) = 5 × ($\frac{43}{8}$ × 8)

Does the associative property apply to multiplication questions with a zero in them?

Answer and show an example.

Yes, the associative property can be applied for multiplication questions with a zero in them.

$$(4 \times 5) \times 0 = 20 \times 0 = 0$$

$$4 \times (5 \times 0) = 4 \times 0 = 0$$