



# Properties of Multiplication

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 3

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: *In Grade 3,  $(2 \times 3) \times 4$  equals  $2 \times (3 \times 5)$  by the associative property.*

Rewrite: \_\_\_\_\_

2. Fix the sentence:

*The Grade 3 associative property lets you change the order of the factors in  $4 \times 5 \times 2$ .*

Rewrite: \_\_\_\_\_

3. Fix the sentence: *In Grade 3,  $(3 \times 2) \times 5$  gives a different product than  $3 \times (2 \times 5)$ .*

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

- In Grade 3,  $(2 \times 4) \times 3 = 2 \times (4 \times \underline{\hspace{2cm}})$ .
- A Grade 3 student finds  $5 \times 2 \times 3$  by first computing  $(5 \times 2) = \underline{\hspace{2cm}}$  and then multiplying by 3.
- In Grade 3,  $2 \times (3 \times 4)$  equals  $2 \times 12$ , which equals  $\underline{\hspace{2cm}}$ .
- Grade 3 students see  $(4 \times 2) \times 5 = 4 \times (2 \times \underline{\hspace{2cm}})$  by the associative property.

## Part C: True or False?

Read each statement. Circle True or False.

- In Grade 3,  $(3 \times 4) \times 2$  equals  $3 \times (4 \times 2)$  because of the associative property.  True  False
- The Grade 3 associative property changes the order of the factors.  True  False
- A Grade 3 student can group  $2 \times 5$  first in  $2 \times 5 \times 7$  to make the math easier.  True  False

## Answer Key · Properties of Multiplication · Grade: Grade 3

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### Part A: Fix the Sentence

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: In Grade 3,  $(2 \times 3) \times 4$  equals  $2 \times (3 \times 5)$  by the associative property.

Rewrite: **In Grade 3,  $(2 \times 3) \times 4$  equals  $2 \times (3 \times 4)$  by the associative property.**

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2. Fix the sentence:

The Grade 3 associative property lets you change the order of the factors in  $4 \times 5 \times 2$ .

Rewrite: **The Grade 3 associative property lets you change the grouping of the factors in  $4 \times 5 \times 2$ .**

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3. Fix the sentence: In Grade 3,  $(3 \times 2) \times 5$  gives a different product than  $3 \times (2 \times 5)$ .

Rewrite: **In Grade 3,  $(3 \times 2) \times 5$  gives the same product as  $3 \times (2 \times 5)$ .**

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### Part B: Fill in the Blank

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Write the missing word or number on each line.

- In Grade 3,  $(2 \times 4) \times 3 = 2 \times (4 \times \underline{3})$ .
- A Grade 3 student finds  $5 \times 2 \times 3$  by first computing  $(5 \times 2) = \underline{10}$  and then multiplying by 3.
- In Grade 3,  $2 \times (3 \times 4)$  equals  $2 \times 12$ , which equals 24.
- Grade 3 students see  $(4 \times 2) \times 5 = 4 \times (2 \times \underline{5})$  by the associative property.

### Part C: True or False?

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Read each statement. Circle True or False.

- In Grade 3,  $(3 \times 4) \times 2$  equals  $3 \times (4 \times 2)$  because of the associative property.  True  False
- The Grade 3 associative property changes the order of the factors.  True  False
- A Grade 3 student can group  $2 \times 5$  first in  $2 \times 5 \times 7$  to make the math easier.  True  False