

Bright Horizons Academy

Grade 4: Mathematics

Multi-Digit Multiplication (Two-Digit by Two-Digit)

Objective:

Students will learn how to *multiply* two-digit numbers by two-digit numbers using a *step-by-step process*.

Core Content:

When you multiply two-digit numbers, such as 23×45 , you can do it step by step:

1. First, multiply 23 by 5 (the **ones** place of 45) to get **115**.
2. Then, multiply 23 by 40 (the **tens** place, 4, times 10) to get **920**.
3. Finally, add these two results together: $115 + 920 = \mathbf{1,035}$.

Following these steps carefully will help you find the correct answer.

Examples:

Here's how we solve two-digit multiplication step by step

1. 23×45
 - $23 \times 5 = 115$
 - $23 \times 40 = 920$
 - $115 + 920 = 1035$

2. 36×12

- $36 \times 2 = 72$
- $36 \times 10 = 360$
- $72 + 360 = 432$

3. 42×21

- $42 \times 1 = 42$
- $42 \times 20 = 840$
- $42 + 840 = 882$

Practice Questions:

1. $27 \times 34 = ?$

2. $45 \times 22 = ?$

3. $56 \times 13 = ?$

4. $41 \times 25 = ?$

5. $32 \times 19 = ?$

Answers to Practice Questions:

1. $27 \times 34 = 918$

2. $45 \times 22 = 990$

3. $56 \times 13 = 728$

4. $41 \times 25 = 1,025$

5. $32 \times 19 = 608$