



Multi-Digit Multiplication

Name: _____

Date: _____

Grade: Grade 5

Part A: Fix the Sentence

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

1. Fix the sentence: In a Grade 5 lattice for 423 times 6, you draw a 2-by-2 grid.

Rewrite: _____

2. Fix the sentence: After filling cells, Grade 5 learners adds the diagonals from left to right.

Rewrite: _____

3. Fix the sentence: Each cell of the lattice holds one partial products from a digit pair.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- For Grade 5 lattice 312 times 4, the grid has 3 columns and _____ row.
- In Grade 5 lattice work, each cell is split by one _____ line.
- If 7 times 8 equals 56, the cell shows 5 above and _____ below the diagonal.
- Grade 5 learners read the final lattice answer starting at the top-left and moving _____ around the edge.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Use the lattice method to multiply 234 times 6 and explain the diagonal sums in Grade 5 language.

2. Why is the lattice method helpful for Grade 5 students learning 3-digit by 1-digit multiplication?

Answer Key · Multi-Digit Multiplication · Grade: Grade 5

Part A: Fix the Sentence

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

1. Fix the sentence: In a Grade 5 lattice for 423 times 6, you draw a 2-by-2 grid.

Rewrite: In a Grade 5 lattice for 423 times 6, you draw a 3-by-1 grid.

2. Fix the sentence: After filling cells, Grade 5 learners adds the diagonals from left to right.

Rewrite: After filling cells, Grade 5 learners add the diagonals from right to left.

3. Fix the sentence: Each cell of the lattice holds one partial products from a digit pair.

Rewrite: Each cell of the lattice holds one partial product from a digit pair.

Part B: Fill in the Blank

Write the missing word or number on each line.

- For Grade 5 lattice 312 times 4, the grid has 3 columns and 1 row.
- In Grade 5 lattice work, each cell is split by one diagonal line.
- If 7 times 8 equals 56, the cell shows 5 above and 6 below the diagonal.
- Grade 5 learners read the final lattice answer starting at the top-left and moving down around the edge.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Use the lattice method to multiply 234 times 6 and explain the diagonal sums in Grade 5 language.

I draw a 3-by-1 lattice. Cells hold 1 over 2, 1 over 8, and 2 over 4 for 12, 18, and 24. Adding diagonals from the right gives 4, 10, 3, 1, with one regrouping. The product is 1404.

2. Why is the lattice method helpful for Grade 5 students learning 3-digit by 1-digit multiplication?

The lattice splits the work into small one-digit times one-digit facts inside cells. The diagonals handle place value automatically, so I do not lose track of regrouping. It makes each step visible and easy to check.
