Multi-Digit Multiplication

Name: _____ Date: _____ Grade: Grade 4

Part A: Fix the Sentence

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

1. Fix the sentence:

To multiply 36 × 14 using partial products, find 36 × 4 = 144 and 36 × 1 = 36, then add 144 + 36 = 180.

Rewrite: _____

2. Fix the sentence:

Using the area model for 43 × 25, split 25 into 20 and 5, so the partial products are 43 × 20 = 860 and 43 × 5 = 215, giving 860 + 215 = 1,085.

Rewrite: _____

3. Fix the sentence:

734 × 6 = 4,304 because 4 × 6 = 24, carry the 2, then 3 × 6 = 18 plus 2 = 20, carry the 2, then 7 × 6 = 42 plus 2 = 44.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. Using partial products, 52 × 13 = 52 × 3 + 52 × 10 = 156 + _____ = 676
2. In the area model for 28 × 15, one rectangle is 28 × 10 = 280 and the other is 28 × 5 = _____
3. 645 × 8 = _____
4. The area model breaks a multiplication problem into smaller _____ that are easier to solve.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Use partial products to solve 47 × 12. Show the two partial products and the final answer.

Answer Key · Multi-Digit Multiplication · Grade: Grade 4

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734 × 6 = 4,304 because 4 × 6 = 24, carry the 2, then 3 × 6 = 18 plus 2 = 20, carry the 2, then 7 × 6 = 42 plus 2 = 44.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. Using partial products, 52 × 13 = 52 × 3 + 52 × 10 = 156 + **520** = 676
2. In the area model for 28 × 15, one rectangle is 28 × 10 = 280 and the other is 28 × 5 = **140**
3. 645 × 8 = **5,160**
4. The area model breaks a multiplication problem into smaller **parts** that are easier to solve.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Use partial products to solve 47 × 12. Show the two partial products and the final answer.

_____

_____

2. A parking lot has 18 rows with 35 spaces in each row. How many parking spaces are there in all?