



Multi-Digit Multiplication

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. For Grade 5 problem 36 times 24, the standard algorithm gives a final product of _____.
2. Using partial products for 36 times 24 in Grade 5, the four pieces are 600, 120, 120, and _____.
3. An area model for 36 times 24 has 4 rectangles; their areas total _____.
4. In Grade 5 work, the area model and partial products show the same four _____ products.
5. For 47 times 13 using partial products, 40 times 10 equals _____.
6. The standard algorithm regroupes; the area model avoids regrouping by showing each _____ separately.
7. All three methods for the same Grade 5 problem must produce the same _____.
8. For 25 times 16, partial products 200, 50, 120, and 30 sum to _____.
9. When choosing a method, Grade 5 students may pick the area model to clearly see _____ value.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

| | | |
|---------------------------------------|---------|--------------------------|
| 36 times 24 standard algorithm answer | → _____ | 864 |
| 30 times 20 partial product | → _____ | 600 |
| Area model rectangle for 6 times 4 | → _____ | 24 |
| Sum of all four partial products | → _____ | Equal to standard answer |

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

Part A: Fill in the Blank

Write the missing word or number on each line.

1. For Grade 5 problem 36 times 24, the standard algorithm gives a final product of 864 .
2. Using partial products for 36 times 24 in Grade 5, the four pieces are 600, 120, 120, and 24 .
3. An area model for 36 times 24 has 4 rectangles; their areas total 864 .
4. In Grade 5 work, the area model and partial products show the same four partial products.
5. For 47 times 13 using partial products, 40 times 10 equals 400 .
6. The standard algorithm regroupes; the area model avoids regrouping by showing each rectangle separately.
7. All three methods for the same Grade 5 problem must produce the same product .
8. For 25 times 16, partial products 200, 50, 120, and 30 sum to 400 .
9. When choosing a method, Grade 5 students may pick the area model to clearly see place value.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

| | | |
|---------------------------------------|-----------------------------------|--------------------------|
| 36 times 24 standard algorithm answer | → <u>864</u> | 864 |
| 30 times 20 partial product | → <u>600</u> | 600 |
| Area model rectangle for 6 times 4 | → <u>24</u> | 24 |
| Sum of all four partial products | → <u>Equal to standard answer</u> | Equal to standard answer |