LESSON MAKER PRO

Multiply and Build

Use partial products to multiply whole numbers.

GRADE 5 · 5.NOS.B.4.c

5.NOS.B.4.c "Use a standard algorithm to multiply."

NAME _____ DATE _____

THE STANDARD ALGORITHM

Line up the digits by place value. Multiply by each digit of the bottom number, starting on the right, and regroup when needed. Start the tens row with 0 in the ones place, then add the partial products.

WORKED EXAMPLE

Find 238 x 46.

1. Multiply by 6 ones: 238 x 6 = 1,428.
2. Multiply by 4 tens: 238 x 40 = 9,520.
3. Line up and add: 1,428 + 9,520 ------- 10,948

Answer: 10,948

PRACTICE 6 problems

1 Use the standard algorithm to find 47 x 26.

ANSWER _____

2 Use the standard algorithm to find 68 x 35.

ANSWER _____

3 Use the standard algorithm to find 124 x 37.

ANSWER _____

4 Use the standard algorithm to find 305 x 48.

ANSWER _____

5 Use the standard algorithm to find 672 x 54.

ANSWER _____

6 Use the standard algorithm to find 1,204 x 23.

ANSWER _____

APPLY IT Show your work

1 A video game awards 136 points for each level you complete. You complete 24 levels. How many points do you earn? Use the standard algorithm.

WORK SPACE

ANSWER _____

2 A school orders 48 boxes of beads for bracelet making. Each box holds 275 beads. How many beads does the school order? Use the standard algorithm.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the standard algorithm to find 318 x 124. Show all three partial products and the total.

WORK SPACE AND ANSWER

ANSWER KEY

Multiply and Build

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the standard algorithm to find 47 x 26.	**1,222**
2	Use the standard algorithm to find 68 x 35.	**2,380**
3	Use the standard algorithm to find 124 x 37.	**4,588**
4	Use the standard algorithm to find 305 x 48.	**14,640**
5	Use the standard algorithm to find 672 x 54.	**36,288**
6	Use the standard algorithm to find 1,204 x 23.	**27,692**

PART 2 · APPLY IT

1. **3,264 points** Multiply 136 x 24. Add the partial products 544 and 2,720 to get 3,264.
2. **13,200 beads** Multiply 275 x 48. Add the partial products 2,200 and 11,000 to get 13,200.

CHALLENGE

1,272 + 6,360 + 31,800 = 39,432

For the challenge, accept the partial products in any order if they are aligned by place value and total 39,432.