LESSON MAKER PRO

Place Value Power

Break apart numbers to multiply by one digit.

GRADE 4 · 4.NBT.5a

4.NBT.5a "Use strategies based on place value and the properties of multiplication to: Multiply a whole number of up to four digits by a one-digit whole number."

NAME _____ DATE _____

MULTIPLY BY PARTS

Break a number into thousands, hundreds, tens, and ones. Multiply each part by the one-digit number, then add the products.

WORKED EXAMPLE

Find 1,326 x 7.

1. Break apart 1,326: 1,000 + 300 + 20 + 6.
2. Multiply each part by 7: 7,000 + 2,100 + 140 + 42.
3. Add the products: 7,000 + 2,100 + 140 + 42 = 9,282.

Answer: 9,282

PRACTICE 6 problems

1 Find 214 x 3.

ANSWER _____

2 Find 308 x 4.

ANSWER _____

3 Find 1,204 x 5.

ANSWER _____

4 Find 2,316 x 2.

ANSWER _____

5 Find 1,709 x 6.

ANSWER _____

6 Find 3,482 x 8.

ANSWER _____

APPLY IT Show your work

1 A sticker club has 4 boxes with 1,248 stickers in each box. How many stickers does the club have in all?

WORK SPACE

ANSWER _____

2 Maya earns 2,105 points in each of 3 arcade games. How many points does she earn in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says 2,406 x 4 = 8,024 because 2,000 x 4 = 8,000 and 6 x 4 = 24. Explain what is missing, then find the correct product.

WORK SPACE AND ANSWER

ANSWER KEY

Place Value Power

GRADE 4 · 4.NBT.5a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 214 x 3.	**642**
2	Find 308 x 4.	**1,232**
3	Find 1,204 x 5.	**6,020**
4	Find 2,316 x 2.	**4,632**
5	Find 1,709 x 6.	**10,254**
6	Find 3,482 x 8.	**27,856**

PART 2 · APPLY IT

1. **4,992 stickers** Multiply 1,248 by 4 to get 4,992 stickers.
2. **6,315 points** Multiply 2,105 by 3 to get 6,315 points.

CHALLENGE

The student left out 400 x 4 = 1,600. The correct product is 9,624.

Accept any correct place-value or multiplication strategy. For the challenge, look for the missing 1,600 and the correct product.