LESSON MAKER PRO

Multiply with Muscle

Use place value to multiply larger numbers.

GRADE 4 · 4.NBT.B

CCSS.Math.Content.4.NBT.B "Use place value understanding and properties of operations to perform multi-digit arithmetic."

NAME _____ DATE _____

BUILD PARTIAL PRODUCTS

Break one factor into hundreds, tens, and ones. Multiply each place-value part, then add the partial products to find the total.

WORKED EXAMPLE

243 x 3

1. 3 x 3 = 9 ones.
2. 3 x 40 = 120.
3. 3 x 200 = 600.
4. 600 + 120 + 9 = 729.

Answer: 729

PRACTICE 6 problems

1 126 x 4 = ?

ANSWER _____

2 305 x 6 = ?

ANSWER _____

3 418 x 2 = ?

ANSWER _____

4 23 x 14 = ?

ANSWER _____

5 31 x 22 = ?

ANSWER _____

6 47 x 16 = ?

ANSWER _____

APPLY IT Show your work

1 At a trading-card event, you put 128 cards into each of 5 storage boxes. How many cards do you store?

WORK SPACE

ANSWER _____

2 Your robotics club makes 15 badge sheets. Each sheet has 24 badges. How many badges does the club make?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school orders 408 pencils for each of 27 classrooms. How many pencils does the school order?

WORK SPACE AND ANSWER

ANSWER KEY

Multiply with Muscle

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	126 x 4 = ?	**504**
2	305 x 6 = ?	**1,830**
3	418 x 2 = ?	**836**
4	23 x 14 = ?	**322**
5	31 x 22 = ?	**682**
6	47 x 16 = ?	**752**

PART 2 · APPLY IT

1. **640 cards** Multiply 128 by 5. 128 x 5 = 640.
2. **360 badges** Multiply 15 by 24. 15 x 24 = 360.

CHALLENGE

11,016 pencils

Accept correct partial-products work or the standard multiplication algorithm. Students may write answers with or without commas when the value is correct.