LESSON MAKER PRO

Multiply in Parts

Use place value to solve multiplication problems.

GRADE 4 · 4.N.2.2

4.N.2.2 "Multiply 3-digit by 1-digit and 2-digit by 2-digit whole numbers, using various strategies, including but not limited to standard algorithms."

NAME _____ DATE _____

BREAK IT APART

You can break a number into place-value parts before you multiply. Multiply each part, then add the partial products to find the total.

WORKED EXAMPLE

Find 42 x 13.

1. Break 13 into 10 + 3.
2. Multiply 42 x 10 = 420.
3. Multiply 42 x 3 = 126.
4. Add 420 + 126 = 546.

Answer: 546

PRACTICE 6 problems

1 Find 317 x 4.

ANSWER _____

2 Find 206 x 7.

ANSWER _____

3 Find 483 x 6.

ANSWER _____

4 Find 24 x 35.

ANSWER _____

5 Find 56 x 18.

ANSWER _____

6 Find 73 x 29.

ANSWER _____

APPLY IT Show your work

1 A sticker club puts 128 stickers in each pack. How many stickers are in 5 packs?

WORK SPACE

ANSWER _____

2 At a school talent show, there are 27 rows with 32 seats in each row. How many seats are there?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game shop ships 23 boxes of cards on Monday and 17 boxes on Tuesday. Each box holds 48 cards. How many cards does the shop ship in all? Show how you can multiply just once.

WORK SPACE AND ANSWER

ANSWER KEY

Multiply in Parts

GRADE 4 · 4.N.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 317 x 4.	**1,268**
2	Find 206 x 7.	**1,442**
3	Find 483 x 6.	**2,898**
4	Find 24 x 35.	**840**
5	Find 56 x 18.	**1,008**
6	Find 73 x 29.	**2,117**

PART 2 · APPLY IT

1. **640 stickers** Multiply 128 x 5 = 640.
2. **864 seats** Multiply 27 x 32 = 27 x 30 + 27 x 2 = 810 + 54 = 864.

CHALLENGE

1,920 cards. There are 23 + 17 = 40 boxes, and 40 x 48 = 1,920.

Accept any correct multiplication strategy. For the challenge, the work must combine the boxes before multiplying by 48.