

Product Power

Build fluency with multi-digit multiplication.

GRADE 5 • 5.NR.2.1

5.NR.2.1 "Fluently multiply multi-digit (up to 3- digit by 2-digit) whole numbers to solve authentic problems."

NAME _____

DATE _____

MULTIPLY IN PARTS

Break apart the two-digit factor into tens and ones. Multiply by each part, line up the place values carefully, and add the partial products.

WORKED EXAMPLE

$$132 \times 24$$

1. $132 \times 4 = 528$

2. $132 \times 20 = 2,640$

3. $528 + 2,640 = 3,168$

Answer: 3,168

PRACTICE 6 problems

1 $247 \times 3 = \underline{\hspace{2cm}}$

ANSWER _____

2 $68 \times 14 = \underline{\hspace{2cm}}$

ANSWER _____

3 $305 \times 12 = \underline{\hspace{2cm}}$

ANSWER _____

4 $129 \times 25 = \underline{\hspace{2cm}}$

ANSWER _____

5 $76 \times 32 = \underline{\hspace{2cm}}$

ANSWER _____

6 $413 \times 21 = \underline{\hspace{2cm}}$

ANSWER _____

APPLY IT Show your work

- 1** The school store orders 36 boxes of trading card sleeves. Each box has 125 sleeves. How many sleeves does the store order?

WORK SPACE

ANSWER _____

- 2** At a park cleanup, 48 teams each collect 67 pieces of litter. How many pieces of litter do the teams collect altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Find 398×27 . Show a strategy that uses partial products or another clear multiplication method.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$247 \times 3 = \underline{\hspace{1cm}}$	741
2	$68 \times 14 = \underline{\hspace{1cm}}$	952
3	$305 \times 12 = \underline{\hspace{1cm}}$	3,660
4	$129 \times 25 = \underline{\hspace{1cm}}$	3,225
5	$76 \times 32 = \underline{\hspace{1cm}}$	2,432
6	$413 \times 21 = \underline{\hspace{1cm}}$	8,673

PART 2 • APPLY IT

1. **4,500 sleeves** Multiply 125 by 36. The store orders 4,500 sleeves.
2. **3,216 pieces of litter** Multiply 67 by 48. The teams collect 3,216 pieces of litter altogether.

CHALLENGE

10,746

Accept correct answers with or without commas. For the challenge, accept any clear strategy that correctly finds 10,746.