

Product Power

Multiply larger whole numbers with care.

GRADE 4 • MA.4.NSO.2.2

MA.4.NSO.2.2 "Multiply two whole numbers, up to three digits by up to two digits, with procedural reliability."

NAME _____

DATE _____

BREAK APART A FACTOR

When you multiply by a two-digit number, break it into tens and ones. Multiply by each part, then add the partial products.

WORKED EXAMPLE

$$243 \times 16$$

1. Break 16 into $10 + 6$.
2. $243 \times 6 = 1,458$.
3. $243 \times 10 = 2,430$.
4. $1,458 + 2,430 = 3,888$.

Answer: 3,888

PRACTICE 6 problems

1 34×7

ANSWER _____

2 126×4

ANSWER _____

3 58×12

ANSWER _____

4 203×15

ANSWER _____

5 317×21

ANSWER _____

6 408×32

ANSWER _____

APPLY IT Show your work

- 1** A comic club puts 27 stickers on each of 42 prize sheets. How many stickers does the club use?

WORK SPACE

ANSWER _____

- 2** A robotics team needs 135 bolts for each of 18 building kits. How many bolts does the team need altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Solve 326×47 . Show partial products or another method that proves your answer.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	34×7	238
2	126×4	504
3	58×12	696
4	203×15	3,045
5	317×21	6,657
6	408×32	13,056

PART 2 • APPLY IT

1. **1,134 stickers** Multiply 27 by 42. $27 \times 42 = 1,134$.
2. **2,430 bolts** Multiply 135 by 18. $135 \times 18 = 2,430$.

CHALLENGE

15,322

Accept any accurate multiplication method, including partial products or the standard algorithm. For word problems, students should include the correct unit in their final answer.