

Multiply Power

Use the standard algorithm with multi-digit factors.

GRADE 5 • 5.NBT.B.5

CCSS.Math.Content.5.NBT.B.5 "Fluently multiply multi-digit whole numbers using the standard algorithm."

NAME _____

DATE _____

LINE UP PLACE VALUES

Write the factors so ones, tens, hundreds, and thousands are lined up. Multiply by each digit in the bottom factor, starting with the ones, then add the partial products.

WORKED EXAMPLE

$$243 \times 36$$

1. Multiply the ones digit: $243 \times 6 = 1,458$.
2. Multiply the tens digit: $243 \times 30 = 7,290$.
3. Add the partial products: $1,458 + 7,290 = 8,748$.

Answer: 8,748

PRACTICE 6 problems

1 58×47

ANSWER _____

2 326×14

ANSWER _____

3 704×23

ANSWER _____

4 $1,205 \times 32$

ANSWER _____

5 469×58

ANSWER _____

6 $2,408 \times 17$

ANSWER _____

APPLY IT Show your work

- 1** A trading card club packs 128 cards in each box. The club fills 24 boxes. How many cards does the club pack?

WORK SPACE

ANSWER _____

- 2** A school concert sells 275 tickets to each of 46 groups. How many tickets does the concert sell?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robotics team uses 3,407 small parts for each of 126 practice kits. How many small parts are needed altogether?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	58×47	2,726
2	326×14	4,564
3	704×23	16,192
4	$1,205 \times 32$	38,560
5	469×58	27,202
6	$2,408 \times 17$	40,936

PART 2 • APPLY IT

1. **3,072 cards** Multiply 128×24 . The club packs 3,072 cards.
2. **12,650 tickets** Multiply 275×46 . The concert sells 12,650 tickets.

CHALLENGE

429,282 small parts

Accept correct products shown with standard-algorithm partial products or another accurate multiplication method. Check that students place zeros or shift left correctly when multiplying by tens and hundreds.