LESSON MAKER PRO

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. For every problem, show the standard algorithm with aligned factors and place-value partial products. Use extra paper if needed.

WORKED EXAMPLE

243 x 36

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

Answer: 8,748

PRACTICE 6 problems

1 58 x 47

ANSWER _____

2 326 x 14

ANSWER _____

3 704 x 23

ANSWER _____

4 1,205 x 32

ANSWER _____

5 469 x 58

ANSWER _____

6 2,408 x 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

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

WORK SPACE AND ANSWER

ANSWER KEY

Multiply Power

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PART 1 · PRACTICE

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

PART 2 · APPLY IT

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

CHALLENGE

429,282 small parts

Require the standard algorithm for target credit on practice, applications and challenge: check aligned factors, regrouping, place-value shifts or zeros for tens and hundreds, and addition of partial products. A correct product alone or another method alone does not show the assessed algorithm. Other accurate strategies may supplement a check. All listed numeric answers remain correct.