

Multiply With Precision

Use the standard algorithm to multiply whole numbers.

GRADE 5 • NY-5.NBT.5

NY-5.NBT.5 "Fluently multiply multi-digit whole numbers using a standard algorithm."

NAME _____

DATE _____

LINE UP PARTIAL PRODUCTS

Multiply the top number by each digit in the bottom number, starting with the ones digit. Write each new partial product in the correct place-value row, then add the partial products. Regroup carefully when a product is 10 or more.

WORKED EXAMPLE

Find 324×17 .

1. Multiply $324 \times 7 = 2,268$.
2. Multiply $324 \times 10 = 3,240$. Write 3,240 in the tens row.
3. Add the partial products: $2,268 + 3,240 = 5,508$.

Answer: 5,508

PRACTICE 6 problems

1 Find 46×38 .

ANSWER _____

2 Find 207×34 .

ANSWER _____

3 Find 615×26 .

ANSWER _____

4 Find $1,248 \times 15$.

ANSWER _____

5 Find $3,406 \times 27$.

ANSWER _____

6 Find $5,072 \times 43$.

ANSWER _____

APPLY IT Show your work

- 1** A school game club orders 148 packs of trading cards. Each pack has 24 cards. How many trading cards does the club order?

WORK SPACE

ANSWER _____

- 2** A student council sells 275 snack tickets each day for 32 days. How many snack tickets does the student council sell in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A music streaming service adds 2,305 songs to each of 126 playlists. How many songs are added in all? Show the partial products you used.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find 46×38 .	1,748
2	Find 207×34 .	7,038
3	Find 615×26 .	15,990
4	Find $1,248 \times 15$.	18,720
5	Find $3,406 \times 27$.	91,962
6	Find $5,072 \times 43$.	218,096

PART 2 • APPLY IT

1. **3,552 cards** Multiply 148 by 24. The product is 3,552.
2. **8,800 snack tickets** Multiply 275 by 32. The product is 8,800.

CHALLENGE

290,430 songs

Accept correct products with or without commas. For the challenge, accept any correct standard-algorithm work that shows partial products totaling 290,430.