LESSON MAKER PRO

Multiply in Rows

Find two-digit products with the standard algorithm.

GRADE 4 · 4.NOS.B.3.c

4.NOS.B.3.c "Use a standard algorithm"

NAME _____ DATE _____

THE TENS ROW

Multiply by the ones digit first, regrouping when needed. Then multiply by the tens digit, starting that row in the tens place. Add the two rows to find the product.

WORKED EXAMPLE

Find 34 x 26.

1. Multiply by the ones digit: 34 x 6 = 204.
2. Multiply by the tens digit: 34 x 20 = 680. Start this row in the tens place.
3. Add the rows: 204 + 680 = 884.

Answer: 884

PRACTICE 6 problems

1 Use the standard algorithm to find 47 x 23. Show both multiplication rows.

ANSWER _____

2 Use the standard algorithm to find 65 x 14. Show both multiplication rows.

ANSWER _____

3 Use the standard algorithm to find 38 x 42. Show both multiplication rows.

ANSWER _____

4 Use the standard algorithm to find 72 x 35. Show both multiplication rows.

ANSWER _____

5 Use the standard algorithm to find 54 x 28. Show both multiplication rows.

ANSWER _____

6 Use the standard algorithm to find 86 x 19. Show both multiplication rows.

ANSWER _____

APPLY IT Show your work

1 For a class art project, a teacher orders 24 packs of 36 stickers. How many stickers are there in all? Use the standard algorithm.

WORK SPACE

ANSWER _____

2 One section of a soccer stadium has 32 rows with 28 seats in each row. How many seats are in that section? Use the standard algorithm.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student multiplied 46 x 32. They found 92 for 46 x 2 and 138 for 46 x 3, then added to get 230. What place-value mistake did they make? Find the correct product using the standard algorithm.

WORK SPACE AND ANSWER

ANSWER KEY

Multiply in Rows

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the standard algorithm to find 47 x 23. Show both multiplication rows.	**1,081**
2	Use the standard algorithm to find 65 x 14. Show both multiplication rows.	**910**
3	Use the standard algorithm to find 38 x 42. Show both multiplication rows.	**1,596**
4	Use the standard algorithm to find 72 x 35. Show both multiplication rows.	**2,520**
5	Use the standard algorithm to find 54 x 28. Show both multiplication rows.	**1,512**
6	Use the standard algorithm to find 86 x 19. Show both multiplication rows.	**1,634**

PART 2 · APPLY IT

1. **864 stickers** Multiply 36 x 4 = 144 and 36 x 20 = 720. Add the rows to get 864 stickers.
2. **896 seats** Multiply 28 x 2 = 56 and 28 x 30 = 840. Add the rows to get 896 seats.

CHALLENGE

The student multiplied by 3 instead of 30 for the tens row. The correct product is 92 + 1,380 = 1,472.

Check that students start the tens row in the tens place and add the two rows correctly. Accept equivalent written explanations of the challenge error.