

Multiply the Groups

Read products as equal groups.

GRADE 3 • NY-3.OA.1

NY-3.OA.1 "Interpret products of whole numbers."

NAME _____

DATE _____

WHAT A PRODUCT MEANS

A multiplication expression tells about equal groups. In $a \times b$, a is the number of groups and b is the number in each group. The product is the total number of items.

WORKED EXAMPLE

There are 3 trays. Each tray has 6 muffins. What does 3×6 mean, and how many muffins are there?



1. 3×6 means 3 groups with 6 in each group.
2. Add the groups: $6 + 6 + 6 = 18$.
3. Write the product: $3 \times 6 = 18$.

Answer: 3 groups of 6, or 18 muffins

PRACTICE 6 problems

- 1** Complete the meaning of 4×5 : ____ groups of ____ make a total of ____.

ANSWER _____

- 2** The array shows 2×8 . Write the product.



ANSWER _____

- 3** Which story matches 7×4 ? A. Seven boxes have 4 crayons in each box. B. Four boxes have 7 crayons in each box.

ANSWER _____

- 4** There are 9 teams with 2 players on each team. Write a multiplication equation and find the total number of players.

ANSWER _____

- 5** Find 8×5 . Then tell what the expression means.

ANSWER _____

- 6** A sticker sheet has 5 rows with 7 stickers in each row. How many stickers are on the sheet?

ANSWER _____

APPLY IT Show your work

- 1** At a video game club, 5 prize bags have 8 game cards in each bag. How many game cards are there altogether? Write an equation.

WORK SPACE

ANSWER _____

- 2** A class plants 7 pots of flowers. Each pot has 5 flowers. How many flowers do the students plant? Write an equation.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Two students describe 4×9 . One says, "4 groups of 9." The other says, "9 groups of 4." Explain why both descriptions have the same total.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Complete the meaning of 4×5 : ____ groups of ____ make a total of ____.	4 groups of 5 make a total of 20.
2	The array shows 2×8 . Write the product.	16
3	Which story matches 7×4 ? A. Seven boxes have 4 crayons in each box. B. Four boxes have 7 crayons in each box.	A
4	There are 9 teams with 2 players on each team. Write a multiplication equation and find the total number of players.	$9 \times 2 = 18$
5	Find 8×5 . Then tell what the expression means.	40; 8 groups of 5
6	A sticker sheet has 5 rows with 7 stickers in each row. How many stickers are on the sheet?	35

PART 2 • APPLY IT

- $5 \times 8 = 40$ game cards** There are 5 equal groups, with 8 cards in each group. Multiply 5×8 to get 40.
- $7 \times 5 = 35$ flowers** There are 7 equal groups, with 5 flowers in each group. Multiply 7×5 to get 35.

CHALLENGE

Both descriptions make 36 because $4 \times 9 = 9 \times 4 = 36$.

Accept an equation written with the factors in either order when the total is correct. For interpretation items, accept equivalent wording such as "4 sets of 5" for "4 groups of 5."