

Grade 3 - Understanding Multiplication - Answer Key

Common Core 3.OA.A.1, 3.OA.A.3 · maths-pdf.fr/en/

This **multiplication meaning answers** for 3rd Grade covers understanding multiplication (Common Core 3.OA.A.1, 3.OA.A.3), with a free PDF to print.

This answer key gives a full solution for each of the 20 problems on the multiplication meaning worksheet. Compare the steps with your own work, check the equation first, and then check the product by repeated addition or skip counting.

Grade 3 · Common Core State Standards: **3.OA.A.1, 3.OA.A.3**

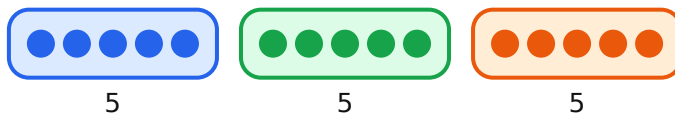
Multiplication meaning answers: exercises 1 to 10

Exercise 1 - Groups in a product

The first factor is the number of groups and the second is the size of each group. So 8×3 means 8 groups of 3. Answer: **8 groups, 3 in each group**.

Exercise 2 - Count the groups

There are 3 boxes with 5 dots in each box. Equation: $3 \times 5 = 15$. Check by adding: $5 + 5 + 5 = 15$. Answer: **15 dots**.



Each box holds 5, and 3 boxes hold 15.

Exercise 3 - Repeated addition

7×3 is 7 groups of 3, so add 3 seven times: $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$. Answer: **21**.

Exercise 4 - Read the array

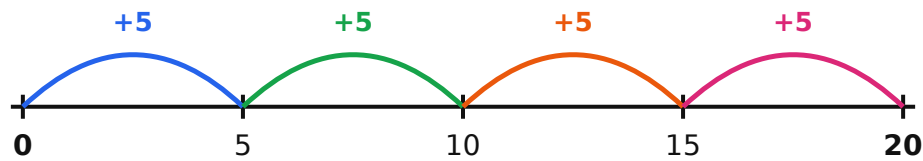
Count 5 rows with 6 dots in each row. Equation: $5 \times 6 = 30$. Answer: **30 dots**.

Exercise 5 - Meaning of each factor

The 9 is the number of groups. The 4 is the number in each group. The 36 is the product, the total in all. Answer: **9 groups of 4 make 36**.

Exercise 6 - Jumps on a number line

There are 4 jumps of 5. Equation: $4 \times 5 = 20$. Count by 5s: 5, 10, 15, 20. Answer: **20 feet**.



The rabbit lands on 20.

Exercise 7 - Shelves of books

6 shelves with 5 books on each shelf: $6 \times 5 = 30$. Answer: **30 books**.

Exercise 8 - Jugs of water

4 jugs hold 3 gallons each: $4 \times 3 = 12$. Answer: **12 gallons**.

Exercise 9 - Rows of seats

$3 \times 8 = 24$. Check: $8 + 8 + 8 = 24$. Answer: **24 seats**.

Exercise 10 - Tickets

7 groups of \$3: $7 \times 3 = 21$. Answer: \$21.

Exercises 11 and up

Exercise 11 - Unknown product

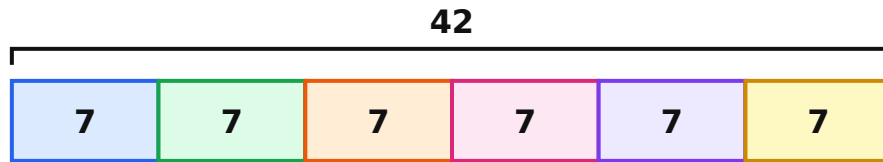
9×3 means 9 groups of 3. Count by 3s nine times: 3, 6, 9, 12, 15, 18, 21, 24, 27. Answer: $n = 27$.

Exercise 12 - Repeated addition check

5×4 is 5 groups of 4, so there must be five 4s. Mei added only four 4s, and $4 + 4 + 4 + 4 = 16$. The correct sum is $4 + 4 + 4 + 4 + 4 = 20$. Answer: **No, she is not correct**.

Exercise 13 - Tape diagram of sticker books

There are 6 equal parts of 7: $6 \times 7 = 42$. Answer: **42**.



The total is 42.

Exercise 14 - Fix the equation

3 groups of 6 need three 6s: $6+6+6=18$. Answer: $3 \times 6=18$.

Exercise 15 - Sticker packs

Step 1: $8 \times 4=32$ stickers. Step 2: $32-5=27$. Answer: **27 stickers**.

Exercise 16 - Pencil boxes

Step 1: $3 \times 9=27$. Step 2: $2 \times 6=12$. Step 3: $27+12=39$. Answer: **39 pencils**.

Exercise 17 - Bake sale trays

Step 1: $5 \times 8=40$. Step 2: $40-25=15$. Answer: **15 muffins**.

Exercise 18 - Who hiked farther?

Sofia: $7 \times 3=21$ miles. Diego: $5 \times 4=20$ miles. $21-20=1$. Answer: **Sofia, by 1 mile**.

Exercise 19 - Peach crates

First stand: $6 \times 8=48$. Second stand: $9 \times 5=45$. Together: $48+45=93$. Answer: **93 peaches**.

Exercise 20 - Tables and chairs

Students: $4 \times 6=24$ and $3 \times 8=24$, so $24+24=48$. Empty chairs: $50-48=2$. Answer: **2 chairs**.

Key facts behind this multiplication meaning answers

Key facts

- A multiplication equation such as $4 \times 6 = 24$ means 4 groups of 6.
- The numbers you multiply are factors, and the answer is the product.
- An array has equal rows, so 4 rows of 6 show 4×6 .
- Repeated addition matches multiplication: $6 + 6 + 6 + 6 = 24$.
- A letter or symbol can stand for the unknown product, as in $5 \times 8 = n$.

How to use this multiplication meaning answers

Cover each solution, solve the exercise again, then uncover it and compare every line. If your answer differs, find the first step that changed and redo the exercise from there.

Download the multiplication meaning answers as a PDF with the button below and keep it with your notes.