

Grade 3 · Understanding Multiplication · Worksheet Answer Key

Common Core 3.OA.A.1, 3.OA.A.3 · mathovore.fr

This answer key gives a full worked solution for each of the 24 problems. Check the number of groups, the size of each group and the product. Look at the pictures to see why each multiplication sentence matches the story.

Grade 3 Common Core: 3.OA.A.1 · 3.OA.A.3

Problem 1: Groups to product

There are 3 groups and 4 dots in each group.

$3 \times 4 = 12$. **Answer:** $3 \times 4 = 12$

Problem 2: Reading a product

The first factor is the number of groups: 6 groups of 2.

Skip count by 2: 2, 4, 6, 8, 10, 12. **6 groups of 2;** $6 \times 2 = 12$

Problem 3: Repeated addition

The number 4 is added 5 times, so there are 5 groups of 4.

$5 \times 4 = 20$

Problem 4: Count the array

There are 4 rows with 5 dots in each row.

$4 \times 5 = 20$; **20 dots**

Problem 5: Rows of chairs

3 rows are 3 groups, and each group has 6 chairs.

$3 \times 6 = 18$; **18 chairs**

Problem 6: Write the array sentence

2 rows, 8 in each row.

$$2 \times 8 = 16$$

Problem 7: Jumps on a number line

There are 6 jumps, and each jump is 3 long. The last jump lands on 18.

$$6 \times 3 = 18$$

Problem 8: Bike wheels

7 groups of 2 wheels: 7×2 .

Skip count by 2 seven times: 2, 4, 6, 8, 10, 12, 14.

14 wheels

Problem 9: Egg cartons

4 groups of 6: $4 \times 6 = 24$.

24 eggs

Problem 10: Match the meaning

Story (a) has 4 groups with 5 in each group, which is 4×5 .

Story (b) is $4 + 5$, and story (c) is 5×9 .

(a); $4 \times 5 = 20$, so 20 apples

Problem 11: Ribbon lengths

3 equal pieces, each 5 inches: $3 \times 5 = 15$.

15 inches

Problem 12: Price of pens

5 groups of \$3: $5 \times \$3 = \$15$.

\$15

Problem 13: Unknown product

Skip count by 3 nine times: 3, 6, 9, 12, 15, 18, 21, 24, 27.

$$p = 27$$

Problem 14: Theater seats

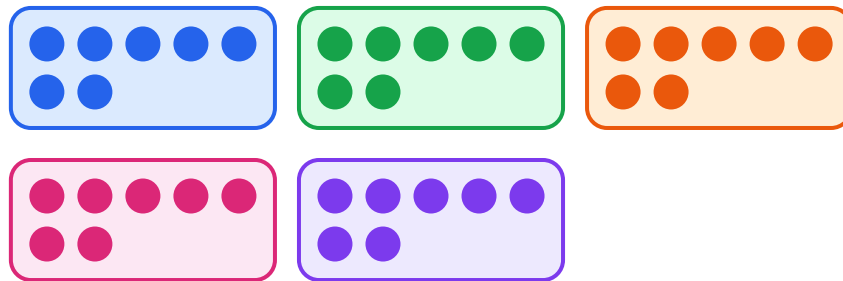
8 rows of 6: $8 \times 6 = 48$.

48 seats

Problem 15: Sticker sheets

5 groups of 7: $5 \times 7 = 35$.

35 stickers



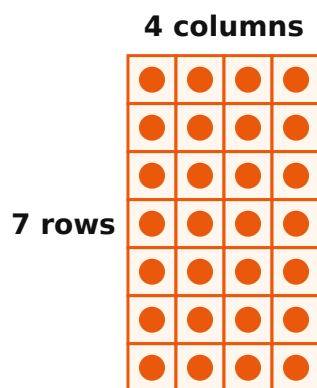
5 groups of 7

5 sheets of 7 stickers each.

Problem 16: Garden rows

7 groups of 4: $7 \times 4 = 28$.

28 plants

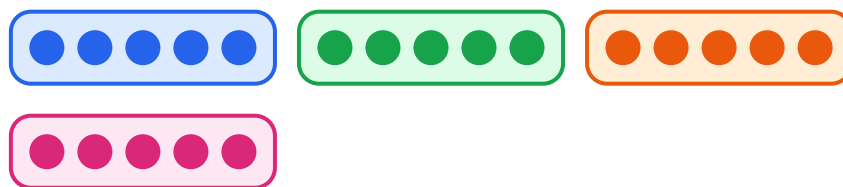


7 rows of 4 plants.

Problem 17: Unknown group size

Skip count by 4 until you reach 20: 4, 8, 12, 16, 20. That takes 5 counts.

$n=5$; 5 cookies on each plate



4 groups of 5

4 plates with 5 cookies each.

Problem 18: Marble bags

Bags: $3 \times 8 = 24$.

Add the loose marbles: $24 + 5 = 29$.

29 marbles

Problem 19: Swimming lengths

4 groups of 25 yards: $4 \times 25 = 100$.

Check: $25 + 25 + 25 + 25 = 100$.

100 yards

Problem 20: Movie tickets

6 groups of \$7: $6 \times \$7 = \$42$.

\$42

Problem 21: Little League teams

Let t be the total. There are 5 groups of 9, so $5 \times 9 = t$.

$t = 45$; **45 players**

Problem 22: Pencils given away

Pencils in packs: $4 \times 6 = 24$.

Take away 7: $24 - 7 = 17$.

17 pencils



4 equal parts

4 packs of 6 pencils make 24 pencils.

Problem 23: Bake sale trays

6 groups of 9: $6 \times 9 = c$.

Skip count by 9: 9, 18, 27, 36, 45, 54.

$c = 54$; **54 cookies**

Problem 24: Two shelves of books

First cart: $3 \times 9 = 27$.

Second cart: $2 \times 8 = 16$.

Together: $27 + 16 = 43$.

43 books