

Understanding Multiplication: math practice, Grade 3 – download the PDF

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Plates of cookies



Mina puts 2 cookies on each of 5 plates.

- Write a repeated addition for the total number of cookies.
- Write the multiplication equation.
- How many cookies are there?

2 From addition to multiplication



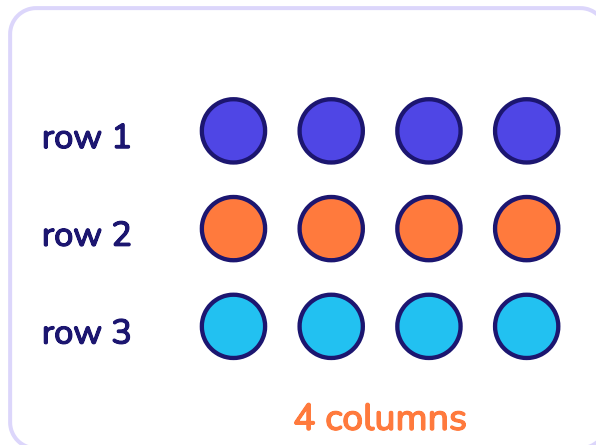
Rewrite each repeated addition as a multiplication equation and find the product.

- $6 + 6 + 6 + 6$
- $9 + 9 + 9$
- $2 + 2 + 2 + 2 + 2 + 2 + 2$

3 Stickers in an array



A sticker sheet is shown below.



a. How many rows are there? How many columns?

b. Write two multiplication equations for the array.

4 Skip counting by 5



Skip count by 5 to find 5×5 . Write every number you say.

5 Zeros and ones



Find each product.

a. 7×1

b. 1×9

c. 8×0

d. 0×6

6 Name the parts

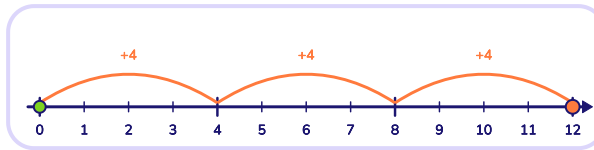


In the equation $4 \times 7 = 28$, which numbers are the factors? Which number is the product?

7 Jumps on a number line



The number line shows jumps from 0.



- How many jumps are there? How long is each jump?
- Where do the jumps end?
- Write the multiplication equation.

8 True or false?



Say whether each statement is true or false. Explain.

- $2 \times 9 = 9 \times 2$
- $5 + 5 + 5 = 5 \times 3$
- $3 \times 0 = 3$
- $4 \times 1 = 4 + 1$

9 Bike shop



A shop has 6 bikes. Each bike has 2 wheels. How many wheels are there in all? Write two different equations that match the story.

10 Theater seats



A small theater has 7 rows. Each row has 3 seats. How many seats does it have? Show your work with an array drawing in words (rows and columns).

11 Bundles of pencils



A teacher makes 8 bundles. Each bundle holds 10 pencils. Use skip counting to find the total number of pencils.

12 Switch the factors



Use the commutative property to fill in each box.

a. $7 \times 4 = 28$, so $4 \times 7 = \square$

b. $9 \times 6 = 6 \times \square$

c. $5 \times \square = 8 \times 5$

13 Arrays for 12



Marco has 12 counters. He wants to arrange them in an array with equal rows. List three different arrays he can make, and write the equation for each.

14 Find the mistake



Leo wrote $5 \times 4 = 9$. What mistake did he make? Give the correct product and show it with repeated addition.

15 The hopping frog



A frog starts at 0 and hops 6 steps each time. Make 7 hops.

- Where does the frog land after 7 hops?
- Does the frog land exactly on 30? Explain.
- Does the frog land exactly on 40? Explain.

16 Marching band

A marching band stands in 8 rows with 5 players in each row. Then 4 players leave to rest. How many players are still standing in the field?

17 Write your own story

Write a word problem for 4×9 . Then solve it and show the answer with repeated addition.

18 Which is greater?

Compare. Use $>$, $<$, or $=$.

- a. 6 groups of 4 and 4 groups of 7
- b. 3 groups of 8 and 6 groups of 4

19 Two arrays in one

Nora lines up a 5-by-3 array of tiles next to a 5-by-4 array of tiles, with no gap, to make one bigger array.

- a. How many tiles are in each small array?
- b. How many rows and columns does the big array have?
- c. Show that both ways give the same total.

20 Zero and one puzzles

- a. I multiply a number by 9 and the product is 9. What is my number?
- b. Ben has 5 bags with 0 stickers in each bag and 1 bag with 7 stickers. How many stickers does he have in all?
- c. I multiply 12 by a number and the product is 0. What is my number?

21

Pick the right model

A school lunch table has 6 trays. Each tray holds 4 cartons of milk. Show the total in three ways: repeated addition, skip counting, and a multiplication equation.

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