LESSON MAKER PRO

Array Adventure

Use equal groups to multiply and divide.

GRADE 3 · TEKS 3.4.K

3.4.K "solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects; pictorial models, including arrays, area models, and equal groups; properties of operations; or recall of facts."

NAME _____ **DATE** _____

EQUAL GROUPS

An array has equal numbers of objects in each row and in each column. Multiply to find the total in equal groups. Divide to find how many are in each group or how many groups there are.

WORKED EXAMPLE

How many dots are in the array?

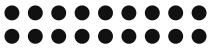


1. There are 5 rows.
2. Each row has 7 dots.
3. 5 × 7 = 35.

Answer: 35 dots

PRACTICE 6 problems

1 How many dots are shown in the array?



ANSWER _____

2 Share 54 stickers equally among 9 albums. How many stickers go in each album?

ANSWER _____

3 There are 11 shelves with 4 comic books on each shelf. How many comic books are there?

ANSWER _____

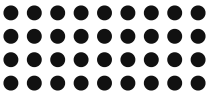
4 Eight boxes each hold 9 crayons. The crayons are shared equally among 4 art tables. How many crayons does each table get?

ANSWER _____

5 A bakery packs 64 muffins equally into 8 trays. How many muffins are in each tray?

ANSWER _____

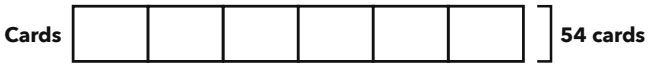
6 How many dots are in each row of the array?



ANSWER _____

APPLY IT Show your work

1 A trading-card club has 54 cards. It shares them equally among 6 teams. Each team earns 2 bonus points for every card it receives. How many bonus points does each team earn?



ANSWER _____

2 A craft club has 72 beads. It shares the beads equally among 8 tables. Each table uses its beads to make 3 identical bracelets. How many beads are on each bracelet?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mina has 96 beads. She puts them into 8 equal strings. Then she divides each string into 3 equal sections. How many beads are in each section? Explain with equations or words.

WORK SPACE AND ANSWER

ANSWER KEY # Array Adventure

GRADE 3 · TEKS 3.4.K

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many dots are shown in the array?	**18**
2	Share 54 stickers equally among 9 albums. How many stickers go in each album?	**6 stickers**
3	There are 11 shelves with 4 comic books on each shelf. How many comic books are there?	**44 comic books**
4	Eight boxes each hold 9 crayons. The crayons are shared equally among 4 art tables. How many crayons does each table get?	**18 crayons**
5	A bakery packs 64 muffins equally into 8 trays. How many muffins are in each tray?	**8 muffins**
6	How many dots are in each row of the array?	**9 dots**

PART 2 · APPLY IT

1. **18 bonus points** First find the cards for each team: 54 ÷ 6 = 9. Then multiply: 9 × 2 = 18.
2. **3 beads** Each table gets 72 ÷ 8 = 9 beads. Then 9 ÷ 3 = 3 beads on each bracelet.

CHALLENGE

4 beads in each section. 96 ÷ 8 = 12, and 12 ÷ 3 = 4.

Accept correct multiplication or division equations and equivalent explanations. For the challenge, students should show both division steps or clearly explain equal sharing twice.