LESSON MAKER PRO

Arrays in Action

Multiply and divide with equal rows

GRADE 5 · 5.NOS.B.7.b

5.NOS.B.7.b "Use concrete models, drawings, and arrays to multiply and divide."

NAME _____ DATE _____

THE BIG IDEA

An array has equal rows. Multiply the number of rows by the number of dots in each row to find the total. To divide, share the total equally among the rows.

WORKED EXAMPLE

How many dots are in the array?



1. Count 3 rows of 11 dots.
2. Multiply: 3 x 11 = 33.

Answer: 33 dots

PRACTICE 4 problems

1 How many dots are in a 4-row, 7-column array?

ANSWER _____

2 Share 30 dots equally among 5 rows. How many dots are in each row?

ANSWER _____

3 How many dots are in a 9-row, 4-column array?

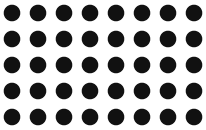
ANSWER _____

4 Share 48 dots equally among 6 rows. How many dots are in each row?

ANSWER _____

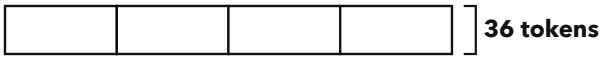
APPLY IT Show your work

1 An arcade display shows one ticket per dot. How many tickets are shown?



ANSWER _____

2 A team shares its game tokens equally. Each section stands for one player. How many tokens does each player get?



ANSWER _____

CHALLENGE One step up

Sketch a 6-row, 12-column array. Split each row into groups of 10 and 2. How many dots are there? Show how the split helps.

WORK SPACE AND ANSWER

ANSWER KEY

Arrays in Action

GRADE 5 · 5.NOS.B.7.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many dots are in a 4-row, 7-column array?	**28 dots**
2	Share 30 dots equally among 5 rows. How many dots are in each row?	**6 dots**
3	How many dots are in a 9-row, 4-column array?	**36 dots**
4	Share 48 dots equally among 6 rows. How many dots are in each row?	**8 dots**

PART 2 · APPLY IT

1. **40 tickets** The array has 5 rows of 8 dots. Multiply 5 x 8 = 40.
2. **9 tokens** The tape has 4 equal sections. Divide 36 by 4 to get 9 tokens per player.

CHALLENGE

72 dots; 6 x 10 + 6 x 2 = 60 + 12 = 72.

Accept any correctly drawn array for the challenge that shows 6 rows of 12 dots, with each row split into 10 and 2.