

Array Adventure

Find totals in equal groups and rows.

GRADE 3 • TEKS 3.4.D

3.4.D "determine the total number of objects when equally-sized groups of objects are combined or arranged in arrays up to 10 by 10;"

NAME _____

DATE _____

FIND THE TOTAL

When groups are equal, multiply the number of groups by the number in each group. In an array, count the rows and columns, then multiply to find the total.

WORKED EXAMPLE

Look at the array. How many dots are there?



1. There are 3 rows.
2. There are 4 dots in each row.
3. Multiply $3 \times 4 = 12$.

Answer: 12 dots

PRACTICE 6 problems

- 1** Look at the array. How many dots are there?



ANSWER _____

- 2** Look at the array. How many dots are there?



ANSWER _____

- 3** There are 6 equal groups of 8 stickers. How many stickers are there altogether?

ANSWER _____

- 4** A classroom has 9 rows of 10 chairs. How many chairs are there?

ANSWER _____

- 5** There are 7 bags with 6 marbles in each bag. How many marbles are there altogether?

ANSWER _____

- 6** A tile wall has 8 columns with 9 tiles in each column. How many tiles are on the wall?

ANSWER _____

APPLY IT Show your work

- 1** Ten teams are playing a video game tournament. Each team has 7 players. How many players are in the tournament?

WORK SPACE

ANSWER _____

- 2** A library has 5 shelves of new comic books. Each shelf has 8 comic books. How many new comic books are on the shelves?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game board has 7 rows. Each row has 8 stars and 5 moons. How many shapes are on the game board? Explain how you found the total.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Look at the array. How many dots are there?	14
2	Look at the array. How many dots are there?	25
3	There are 6 equal groups of 8 stickers. How many stickers are there altogether?	48
4	A classroom has 9 rows of 10 chairs. How many chairs are there?	90
5	There are 7 bags with 6 marbles in each bag. How many marbles are there altogether?	42
6	A tile wall has 8 columns with 9 tiles in each column. How many tiles are on the wall?	72

PART 2 • APPLY IT

1. **70 players** Multiply 10 teams by 7 players in each team: $10 \times 7 = 70$.
2. **40 comic books** Multiply 5 shelves by 8 comic books on each shelf: $5 \times 8 = 40$.

CHALLENGE

91 shapes; $7 \times 8 = 56$, $7 \times 5 = 35$, and $56 + 35 = 91$.

Accept a correct multiplication equation with the total. For the challenge, accept $7 \times 13 = 91$ or adding the two equal-group totals.