

# Array Adventure

*Make equal groups and find the total.*

**GRADE 2 • MA.2.AR.3.2**

**MA.2.AR.3.2** "Use repeated addition to find the total number of objects in a collection of equal groups. Represent the total number of objects using rectangular arrays and equations."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## EQUAL GROUPS

Equal groups have the same number in each group. Draw rows to make an array, then add each row to find the total.

## WORKED EXAMPLE

There are 2 rows of 6 buttons.  
Find the total.

1. Draw 2 rows with 6 buttons in each row.
2. Write  $6 + 6 = 12$ .
3. The array has 12 buttons.

**Answer: 12 buttons;  $6 + 6 = 12$**

## PRACTICE 4 problems

- 1** Draw 3 rows of 5 toy cars. Write a repeated-addition equation.

**ANSWER** \_\_\_\_\_

- 2** Draw 4 rows of 4 crayons. Write a repeated-addition equation.

**ANSWER** \_\_\_\_\_

- 3** Draw 5 rows of 4 cookies. Write a repeated-addition equation.

**ANSWER** \_\_\_\_\_

- 4** Draw 3 rows of 7 shells. Write a repeated-addition equation.

**ANSWER** \_\_\_\_\_

## APPLY IT Show your work

- 1** Ava puts 4 stickers on each of 5 cards. Draw an array. How many stickers does Ava use?

WORK SPACE

ANSWER \_\_\_\_\_

- 2** There are 5 bags with 5 marbles in each bag. Draw an array. How many marbles are there?

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

A pet store has 7 tanks. Each tank has 4 fish. Draw an array and write a repeated-addition equation. How many fish are there?

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## PART 1 • PRACTICE

| # | PROBLEM                                                        | ANSWER                                                 |
|---|----------------------------------------------------------------|--------------------------------------------------------|
| 1 | Draw 3 rows of 5 toy cars. Write a repeated-addition equation. | <b>15 toy cars; <math>5 + 5 + 5 = 15</math></b>        |
| 2 | Draw 4 rows of 4 crayons. Write a repeated-addition equation.  | <b>16 crayons; <math>4 + 4 + 4 + 4 = 16</math></b>     |
| 3 | Draw 5 rows of 4 cookies. Write a repeated-addition equation.  | <b>20 cookies; <math>4 + 4 + 4 + 4 + 4 = 20</math></b> |
| 4 | Draw 3 rows of 7 shells. Write a repeated-addition equation.   | <b>21 shells; <math>7 + 7 + 7 = 21</math></b>          |

## PART 2 • APPLY IT

1. **20 stickers** Draw 5 rows of 4. Add  $4 + 4 + 4 + 4 + 4 = 20$ .
2. **25 marbles** Draw 5 rows of 5. Add  $5 + 5 + 5 + 5 + 5 = 25$ .

## CHALLENGE

**28 fish;  $4 + 4 + 4 + 4 + 4 + 4 + 4 = 28$**

Accept arrays turned sideways if they show the correct equal groups. Accept repeated addition in any order that matches the array.