LESSON MAKER PRO

Dot Array Detectives

Find totals by adding equal rows.

GRADE 2 · 2.OA.C.4

2.OA.C.4 "Using concrete and pictorial representations and repeated addition, determine the total number of objects in a rectangular array with up to 5 rows and up to 5 columns. a..."

NAME _____ DATE _____

ADD THE ROWS

An array has dots in equal rows. Count the dots in one row, then add that number once for each row. The sum tells how many dots there are in all.

WORKED EXAMPLE

Each dot is one button. Write an addition equation to find how many buttons there are.



1. Count 2 dots in one row.
2. Count 2 rows.
3. Add 2 + 2 = 4.

Answer: 2 + 2 = 4 buttons

PRACTICE 5 problems

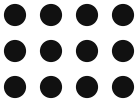
1 Each dot is one sticker. Write a row addition equation. How many stickers are there?



ANSWER _____

_____

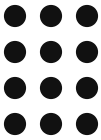
2 Each dot is one cookie. Write a row addition equation. How many cookies are there?



ANSWER _____

_____

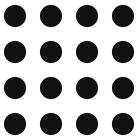
3 Each dot is one toy car. Write a row addition equation. How many toy cars are there?



ANSWER _____

_____

4 Each dot is one crayon. Write a row addition equation. How many crayons are there?



ANSWER _____

_____

5 Each dot is one block. Write a row addition equation. How many blocks are there?



ANSWER _____

_____

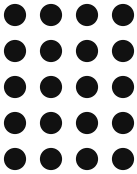
APPLY IT Show your work

1 Mia puts star stickers on a card. Each dot shows one sticker. Write a row addition equation. How many stickers did Mia use?



ANSWER _____

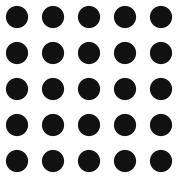
2 Leo sets out toy dinosaurs for a game. Each dot shows one dinosaur. Write a row addition equation. How many dinosaurs did Leo set out?



ANSWER _____

CHALLENGE One step up

Each dot is one bead. Write a row addition equation. Then write one sentence explaining why your equation counts every bead.



WORK SPACE AND ANSWER

ANSWER KEY

Dot Array Detectives

GRADE 2 · 2.OA.C.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Each dot is one sticker. Write a row addition equation. How many stickers are there?	**3 + 3 + 3 = 9 stickers**
2	Each dot is one cookie. Write a row addition equation. How many cookies are there?	**4 + 4 + 4 = 12 cookies**
3	Each dot is one toy car. Write a row addition equation. How many toy cars are there?	**3 + 3 + 3 + 3 = 12 toy cars**
4	Each dot is one crayon. Write a row addition equation. How many crayons are there?	**4 + 4 + 4 + 4 = 16 crayons**
5	Each dot is one block. Write a row addition equation. How many blocks are there?	**3 + 3 + 3 + 3 + 3 = 15 blocks**

PART 2 · APPLY IT

1. **5 + 5 + 5 = 15 stickers** There are 3 rows of 5 stickers. Add 5 + 5 + 5 to get 15.
2. **4 + 4 + 4 + 4 + 4 = 20 dinosaurs** There are 5 rows of 4 dinosaurs. Add five 4s to get 20.

CHALLENGE

5 + 5 + 5 + 5 + 5 = 25. There are 5 rows with 5 beads in each row, so the sum counts every bead once.

Accept any correct repeated-addition equation that counts equal rows or equal columns. For the challenge, the explanation should show that each bead is counted once.