

Name _____

Use Arrays to Find Totals

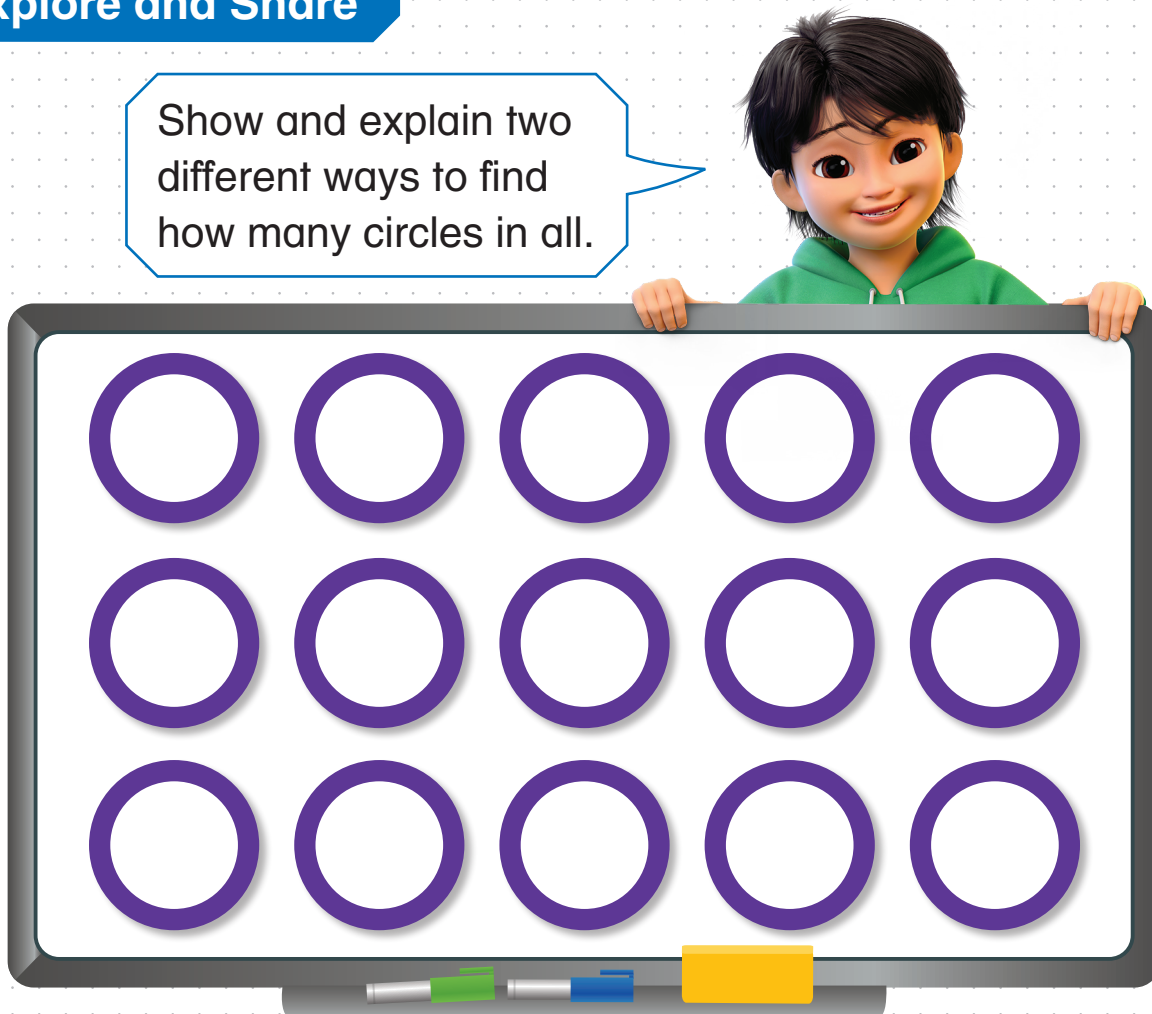
Let's Build

Lesson 2-3

I can ... find the total number of objects in a set of rows and columns.

Explore and Share

Show and explain two different ways to find how many circles in all.

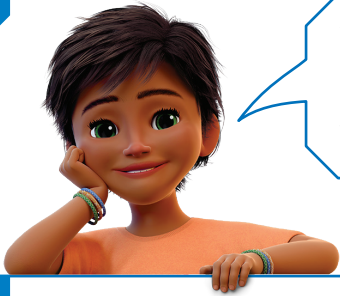


Visual Learning

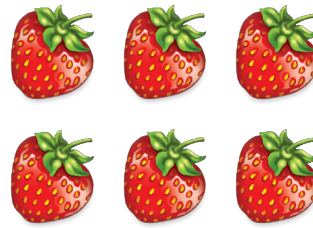
Animation



A

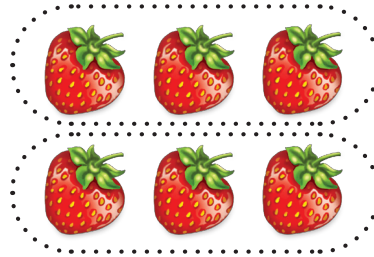


You can model repeated addition with an **array**.



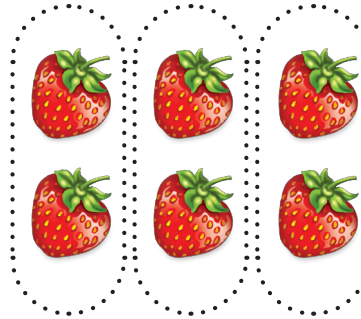
B

Arrays have equal **rows**.
Each row has 3 strawberries.



C

Arrays have equal **columns**.
Each column has 2 strawberries.



D



Write two equations that match the array.

By Rows

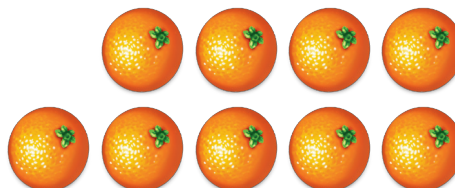
$$3 + 3 = 6$$

By Columns

$$2 + 2 + 2 = 6$$

Talk About Math Ideas

Is this group an array? Explain.

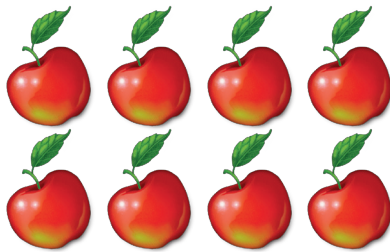


Name _____

Guided Practice

Write two equations that match each array.

1.



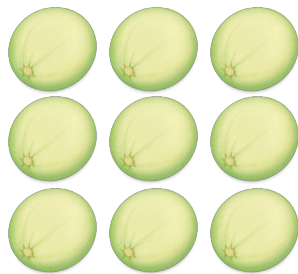
By Rows

$$\underline{4} + \underline{4} = \underline{8}$$

By Columns

$$\underline{2} + \underline{2} + \underline{2} + \underline{2} = \underline{8}$$

2.



By Rows

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

By Columns

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

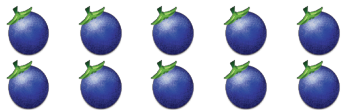
Practice and Problem Solving

Lesson Help



Write two equations that match each array.

3.



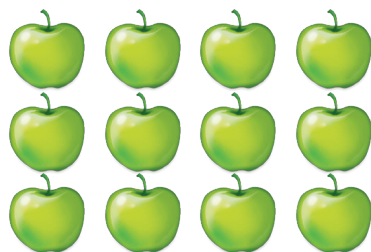
By Rows

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

By Columns

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

4.



By Rows

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

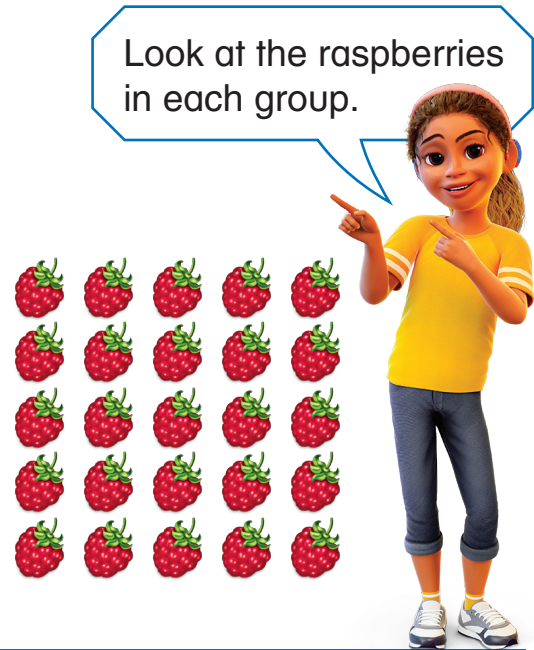
By Columns

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Solve each problem.

5. **Look for Patterns** Ross picks raspberries from a tree. He gives the same number of raspberries to 5 friends. Write an equation to match the picture. How many raspberries did Ross pick?

_____ raspberries



6. **Higher Order Thinking** Draw a garden with up to 5 rows and that has the same number of flowers in each row. Then write two equations that match your array.

Assessment Practice

7. Blake sets basketballs in an array. He has 4 rows of basketballs with 3 basketballs in each row. Which equation shows the array Blake made and how many basketballs in all?

(A) $3 + 3 + 3 + 3 = 12$

(C) $3 + 3 = 6$

(B) $4 + 4 = 8$

(D) $3 + 3 + 3 = 9$