

ARRAYS & REPEATED ADDITION

Write the sentence, name the array, find the missing addend, fix it, or match it. Fillable PDF.

MEET AN ARRAY

My name: _____ Date: _____

Look at the array. Every part is labeled. Then try one yourself.

4 rows
3 columns
12 dots in all

$3 + 3 + 3 + 3 = 12$

Flip it: same total, a different array

4 rows of 3 (above) is " $3 + 3 + 3 + 3 = 12$ ". Turn the same 12 dots on their side and it becomes 3 rows of 4: " $4 + 4 + 4 = 12$ ". Same total, a different sentence — the array's own shape decides which sentence you write.

Your turn:

Every multiplication fact a student learns next starts. Three rows of 3, 4 and 2 dots. The

WRITE THE SENTENCE

My name: _____ Date: _____

Count the array. Write the addition sentence.

1  $\square + \square + \square = \square$

2  $\square + \square = \square$

3  $\square + \square + \square = \square$

4  $\square + \square + \square + \square = \square$

NAME THE ARRAY

My name: _____ Date: _____

Count the array. Write the rows, the columns and the total.

1  Rows Columns Total

2  Rows Columns Total

3  Rows Columns Total

4  Rows Columns Total

FIX IT

My name: _____ Date: _____

Is the sentence right for the array? Circle yes or no. Fix it if not.

1  $2 + 2 + 2 = 8$ Right? If not, the total is YES NO $\square$

2  $2 + 2 = 4$ Right? If not, the total is YES NO $\square$

3  $2 + 2 + 2 + 2 = 6$ Right? If not, the total is YES NO $\square$

4  $3 + 3 = 3$ Right? If not, the total is YES NO $\square$

ARRAY MASTERY TRACKER

STUDENT _____ TEACHER _____ MONTH _____

ARRAY	WRITE THE SENTENCE ALONE (DATE)	NAMED ROWS & COLUMNS ALONE (DATE)	NOTES
2x2			
2x3			
3x2			
4x2			
3x3			
2x5			
5x2			
5x3			
4x4			
4x5			
5x5			

How to fill this in
Date the first call the day a student writes the repeated addition sentence for that array without counting the dots aloud. Date the second call once the same student

THIS MONTH WE ARE FOCUSING ON _____

PRIYA'S TRACKER

Priya R. is invented; nothing on this page describes a real student. The blank tracker is on page 19.

STUDENT _____ TEACHER _____ MONTH _____

Priya R. (an invented student) Mr. Alvarez (invented) October-November

ARRAY	WRITE THE SENTENCE ALONE (DATE)	NAMED ROWS & COLUMNS ALONE (DATE)	NOTES
2x2	9/8	9/15	
2x3	9/22	10/1	
3x2	10/8	10/15	
4x2	10/22	11/1	
3x3	11/8	11/15	
2x5	11/22	12/1	
5x2	12/8	12/15	
5x3	12/22	1/1	
4x4	1/8		Still counts one dot at a time for this size
4x5			
5x5			

How to read it _____

The family note this tracker would produce _____



One complete kit for arrays and repeated addition — writing the full sentence, naming rows and columns, finding a missing addend, checking someone else's work, and a quick matching review — every array capped at 5 rows by 5 columns.

THREE STEPS

1 Meet an array

Page 7 shows one array labeled start to finish: rows, columns, the sentence, and the total. Read it with a student before the first practice page.

2 Pick a format

Five ways to practice: write the sentence, name the array, find a missing addend, fix a wrong sentence, or cut and glue a match. The chart below says which page for which set.

3 Track it, roll it up, send it home

The answer keys are pages 17 and 18. Date each array on the tracker (page 19), roll the class up on page 20, and send the family note (page 21) or the array walk (page 22) home or to the whole class. A filled example is on page 23.

WHICH PAGE, WHEN

WHEN...	USE...
New to arrays	Meet an Array, page 7
Ready to write the whole sentence	Write the Sentence, pages 8–9
Ready to name rows and columns	Name the Array, pages 10–11
Ready to work backward for one number	Missing Addend, pages 12–13
Ready to check someone else's work	Fix It, pages 14–15
A quick matching review	Cut and Glue, page 16
A whole-class or home setting	Array Walk, page 22 · family note, page 21
Setting up a binder for this file	Binder cover and divider tabs, pages 25–26

Everything inside (27 pages)

- **10 student pages** in 5 formats (two sets each): write the sentence, name the array, missing addend, fix it, and cut and glue
- **11 arrays** used across the file, every one 2 to 5 rows by 2 to 5 columns
- **2 answer keys, 1 array-mastery tracker** and **1 class roll-up**, all generated from the same array data as the pages
- **1 family note** and **1 array walk** (a second setting), plus **1 filled example** and **1 phrase bank**
- **1 binder cover** and **5 divider tabs** with a spine label, cut along the dashed lines

What this is not

Not a timed test or a scored screener. No student page is written for an adult. Page 4 shows how each page works.





2 rows of 2

$$2 + 2 = 4$$



2 rows of 3

$$3 + 3 = 6$$



3 rows of 2

$$2 + 2 + 2 = 6$$



4 rows of 2

$$2 + 2 + 2 + 2 = 8$$



3 rows of 3

$$3 + 3 + 3 = 9$$



2 rows of 5

$$5 + 5 = 10$$



5 rows of 2

$$2 + 2 + 2 + 2 + 2 = 10$$



5 rows of 3

$$3 + 3 + 3 + 3 + 3 = 15$$



4 rows of 4

$$4 + 4 + 4 + 4 = 16$$



4 rows of 5

$$5 + 5 + 5 + 5 = 20$$



5 rows of 5

$$5 + 5 + 5 + 5 + 5 = 25$$

Reading the chart

Rows $\times$ columns is the array's own shape. The sentence beside it writes the same array as repeated addition: one addend for every row, each addend worth the number of columns.

Every array this file trains

11 arrays in all, 2 rows by 2 columns up to 5 rows by 5 columns — this file never goes past 5×5 .



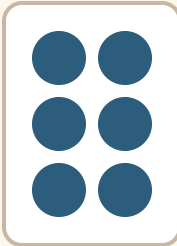
My name: _____

Date _____



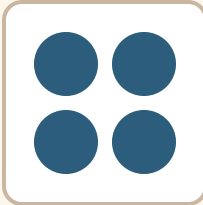
Count the array. Write the addition sentence.

1



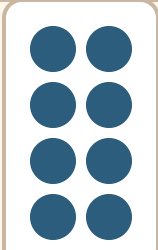
$$\square + \square + \square = \square$$

2



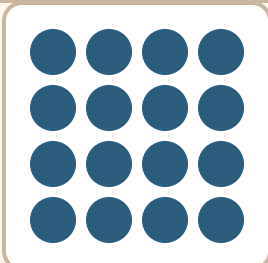
$$\square + \square = \square$$

3



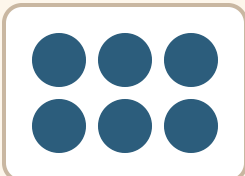
$$\square + \square + \square + \square = \square$$

4



$$\square + \square + \square + \square = \square$$

5



$$\square + \square = \square$$





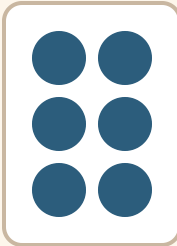
My name: _____

Date _____



☐ Is the sentence right for the array? Circle yes or no. Fix it if not.

1



$$2 + 2 + 2 = 8$$

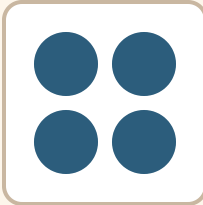
Right?

YES

NO

If not, the total is

2



$$2 + 2 = 4$$

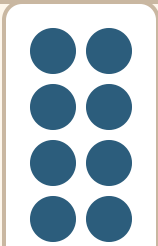
Right?

YES

NO

If not, the total is

3



$$2 + 2 + 2 + 2 = 6$$

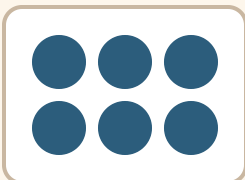
Right?

YES

NO

If not, the total is

4



$$3 + 3 = 3$$

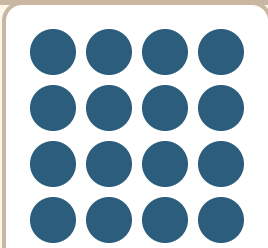
Right?

YES

NO

If not, the total is

5



$$4 + 4 + 4 + 4 = 20$$

Right?

YES

NO

If not, the total is





My name: _____

Date _____



Cut out the sentences. Glue each one by its matching array.

1



2



3



4



5



6



Cut on the dashed lines.

$$2 + 2 = 4$$

$$4 + 4 + 4 + 4 = 16$$

$$2 + 2 + 2 + 2 = 8$$

$$3 + 3 + 3 = 9$$

$$3 + 3 = 6$$

$$2 + 2 + 2 = 6$$





STUDENT

TEACHER

MONTH

ARRAY	WROTE THE SENTENCE ALONE (DATE)	NAMED ROWS & COLUMNS ALONE (DATE)	NOTES
2×2			
2×3			
3×2			
4×2			
3×3			
2×5			
5×2			
5×3			
4×4			
4×5			
5×5			

How to fill this in

Date the first cell the day a student writes the repeated addition sentence for that array without counting the dots aloud. Date the second cell once the same student names the rows and columns alone, with no prompt. A blank never means wrong, only not tried yet. Answer keys: pages 17 and 18.

THIS MONTH WE ARE FOCUSING ON

When to move an array to the class roll-up

Once an array has a “named alone” date here, move it to the class roll-up by size (page 20) and free this row for an array that still needs individual tracking.





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STUDENT

TEACHER

MONTH

Priya R. (an invented student)

Mr. Alvarez (invented)

October–November

ARRAY	WROTE THE SENTENCE ALONE (DATE)	NAMED ROWS & COLUMNS ALONE (DATE)	NOTES
2×2	9/8	9/15	
2×3	9/22	10/1	
3×2	10/8	10/15	
4×2	10/22	11/1	
3×3	11/8	11/15	
2×5	11/22	12/1	
5×2	12/8	12/15	
5×3	12/22	1/1	
4×4	1/8		Still counts one dot at a time for this size
4×5			
5×5			

How to read it

Priya R. has written the sentence alone for **9 of 11** arrays this file tracks, and named the rows and columns alone for **8** of those. Not started yet: 4x5, 5x5. Every number comes from the table above.

The family note this tracker would produce

“So far Priya R. has mastered 8 of our 11 arrays and is still working on 3 more.” — every number in it is a row of the table above.

What's next for Priya

Keep practicing 4x4 with Write the Sentence and Fix It (pages 8–9, 14–15). Start 4x5, 5x5 next with Meet an Array (page 7) before moving to a practice page.





THANK YOU FOR USING THIS RESOURCE

Everything here was built for the teacher who has one more early-multiplication idea to teach and a table of children who each need a different amount of practice with it. If this helped, leaving feedback on TPT helps other teachers find it.

Something missing or wrong?

Please use the **Ask a Question** tab on the product page first — every question is read, and a fix to the file is a free update you re-download from **My Purchases**.

WHAT'S NEXT FROM THIS STORE

The same equal-groups idea, taken a step further: a cut-apart multiplication task box, skip counting by jumps, and the addition-fact practice that leads here.



Multiplication Facts to 5 Sort Task Box

The next step past arrays: a product, sorted by level, no addition sentence needed.



Skip Counting by 2s, 5s and 10s Worksheets, 3 Levels K-2

The same equal-groups idea, counted by jumps instead of written as addition.



Doubles Facts | Addition Doubles Worksheets K-2

More addition-fact practice once the repeated-addition idea is secure.



Addition Within 20 Worksheets: Number Line, Count On, Missing Part

More ways to practice addition fluency alongside this one.

Part of the K-2 Math Foundations collection — new products in this collection are added regularly. Click **Follow** on the store page and TPT will email you when they go up.

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