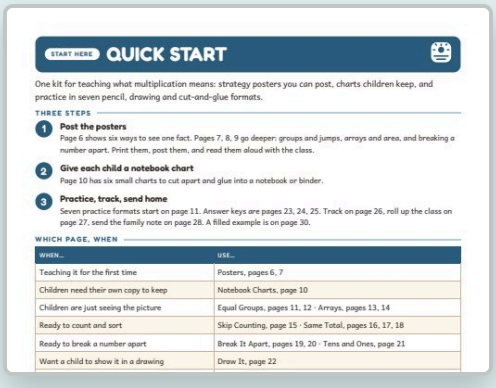
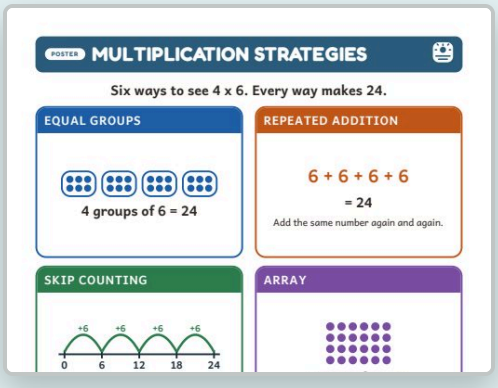
MATH

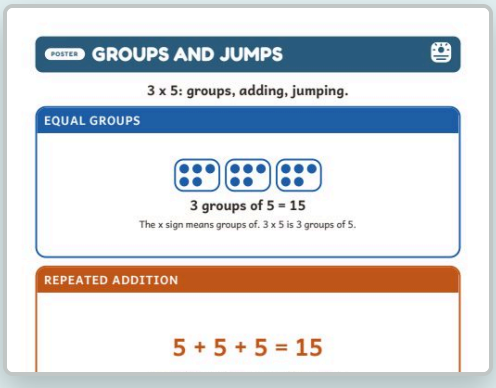
GRADES 3-4

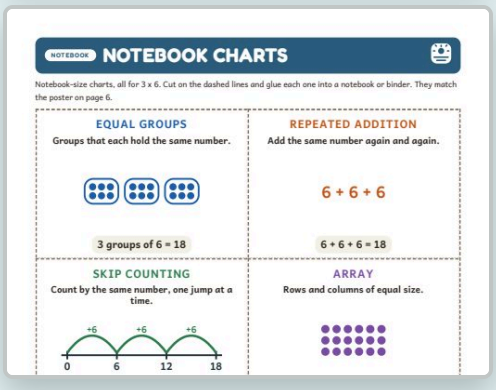
MULTIPLICATION ANCHOR CHART

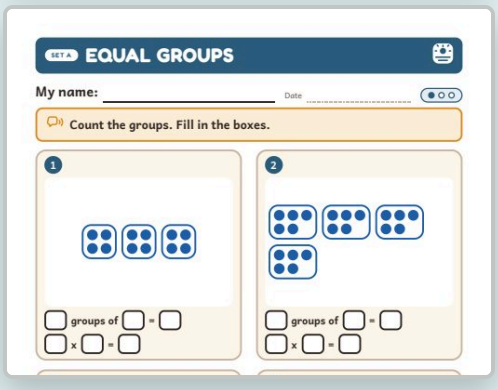
Strategy posters, notebook-size charts, and groups, arrays, skip counting, area model and break-apart practice. Fillable PDF.

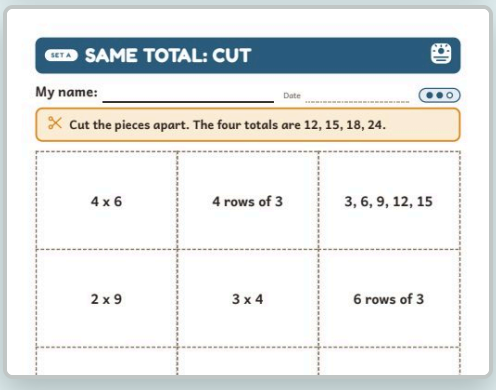












Fillable PDF | 34 Pages | Posters + Notebook | 7 Formats

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PREVIEW

HOW IT WORKS

HOW TO READ A PAGE

THE PARTS OF A PAGE

Six colors, six names
Each strategy keeps its color and its name on every page: blue Equal Groups, orange Repeated Addition, green Skip Counting, purple Array, teal Area Model, red Break Apart.

The dots
Every dot is the same size, so a child can count them. Count rows across, columns down.

The boxes
A box is a place to write one number with a pencil. Sentences such as ___ *groups of* ___ = ___ read left to right.

The dots in the corner
One dot is the easiest page, three is the hardest. The dots are the only code for how hard a page is, never a word printed on a page a student holds.

THE SEVEN FORMATS

FORMAT	WHAT THE CHILD DOES	WHAT IT ASKS FOR
Equal Groups	count, write	Count the dots in each ring, then fill in the sentence. 1 dot.
Arrays	count, write	Count rows and columns, then fill in the sentence. 1 dot.
Skip Counting	fill in	Fill the empty boxes in a count-by row. 1 dot.
Same Total	cut and glue	Cut 12 pieces, glue the ones that make the same total. 2 dots.
Break It Apart	fill in	Multiply each part of a broken-apart number, then add. 2 dots.
Tens and Ones	fill in	Break a two-digit number into tens and ones. 3 dots.
Draw It	draw, write	Draw groups or an array, then write the sentence. 3 dots.

One fact, six ways

4 x 6 is 4 groups of 6, 6 + 6 + 6 + 6, a jump of 6 four times, 4 rows of 6, a 4 by 6 rectangle, or (4 x 5) + (4 x 1). Page 6 shows all six. The answer keys (pages 23, 24, 25) list every item.

Printing and the type-in fields

Every student page prints clean in black and white. In any PDF reader, click a name line, a tracker cell or a note box to type into it, then save. This is a PDF, not a slideshow or a word-processor file.

Practice, not a graded test

Nothing here is timed or scored against a norm. The tracker and class grid (pages 26, 27) are for your own notes. Use the pages in any order.

Cutting

Cut pages have 6 or 12 pieces in a block, so each cut is one straight line. Cut the block into strips first, then the strips into pieces.

PREVIEW

POSTER MULTIPLICATION STRATEGIES

Six ways to see 4 x 6. Every way makes 24.

EQUAL GROUPS



4 groups of 6 = 24

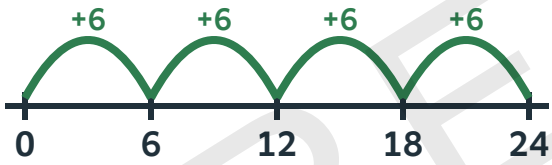
REPEATED ADDITION

6 + 6 + 6 + 6

= 24

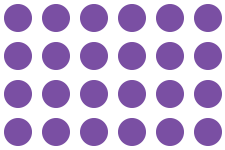
Add the same number again and again.

SKIP COUNTING



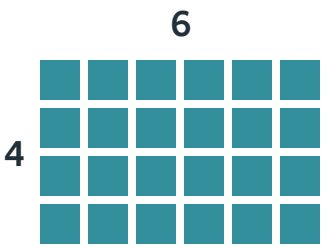
6, 12, 18, 24

ARRAY



4 rows of 6 = 24

AREA MODEL



4 x 6 = 24

Each little square is 1.

BREAK APART



4 x 6 = (4 x 5) + (4 x 1)

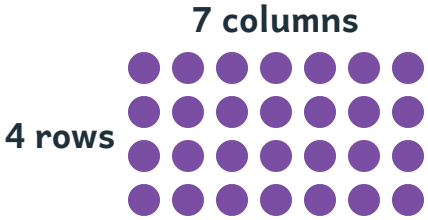
20 + 4 = 24

PREVIEW

POSTER ARRAYS AND AREA

4 x 7: arrays and the area model.

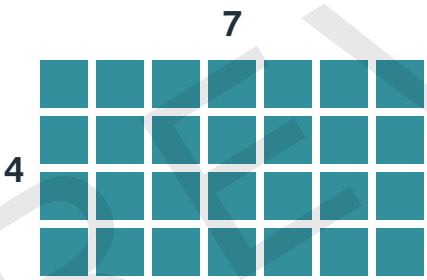
ARRAY



Rows go across. Columns go down.
4 rows of 7 = 28

4 x 7 = 28

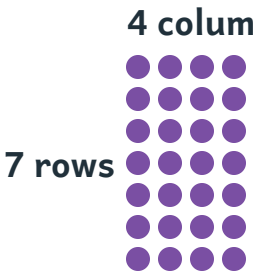
AREA MODEL



The same shape, filled in.
Count the squares, or multiply the sides.

4 x 7 = 28

ARRAY



Turn it. Now there are 7 rows of 4.

7 x 4 = 28 too

PREVIEW

NOTEBOOK CHARTS

Notebook-size charts, all for 3 x 6. Cut on the dashed lines and glue each one into a notebook or binder. They match the poster on page 6.

EQUAL GROUPS

Groups that each hold the same number.



3 groups of 6 = 18

REPEATED ADDITION

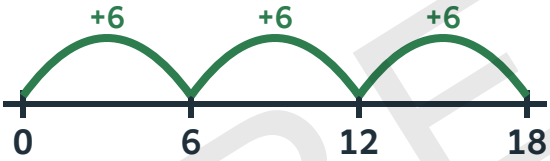
Add the same number again and again.

6 + 6 + 6

6 + 6 + 6 = 18

SKIP COUNTING

Count by the same number, one jump at a time.



6, 12, 18

ARRAY

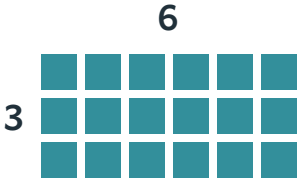
Rows and columns of equal size.



3 rows of 6 = 18

AREA MODEL

A rectangle: the sides tell the product.



3 x 6 = 18

BREAK APART

Split one number, multiply the parts, add.



(3 x 5) + (3 x 1) = 15 + 3 = 18

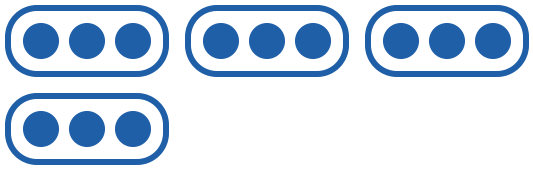
PREVIEW

SET B EQUAL GROUPS

My name: _____ Date .....

Count the groups. Fill in the boxes.

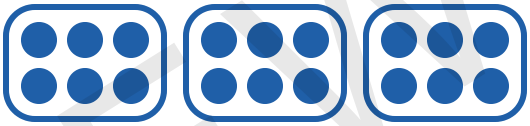
1



☐ groups of ☐ = ☐

☐ x ☐ = ☐

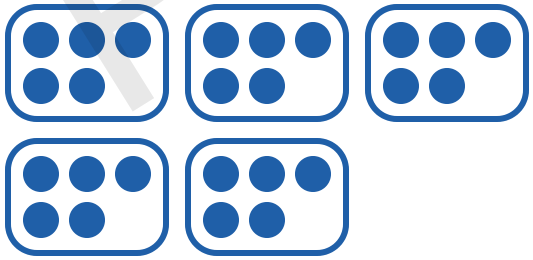
2



☐ groups of ☐ = ☐

☐ x ☐ = ☐

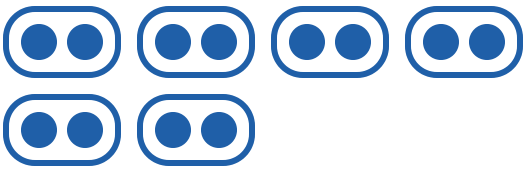
3



☐ groups of ☐ = ☐

☐ x ☐ = ☐

4



☐ groups of ☐ = ☐

☐ x ☐ = ☐

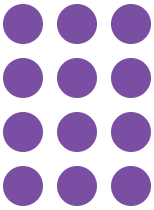
PREVIEW

SET B ARRAYS

My name: _____ Date .....

Count the rows. Fill in the boxes.

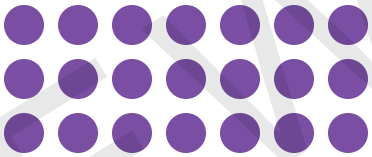
1



☐ rows of ☐ = ☐

☐ x ☐ = ☐

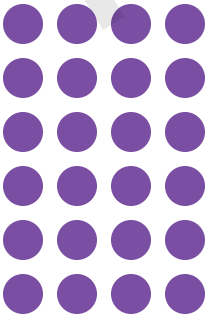
2



☐ rows of ☐ = ☐

☐ x ☐ = ☐

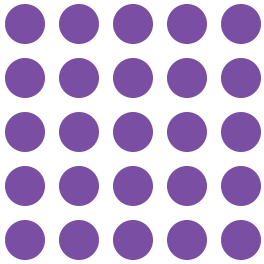
3



☐ rows of ☐ = ☐

☐ x ☐ = ☐

4



☐ rows of ☐ = ☐

☐ x ☐ = ☐

PREVIEW

MAT

SAME TOTAL

My name: _____ Date .....

Write a total on top of each column. Glue the pieces that make that total.

Total	Total	Total	Total

PREVIEW

SET B SAME TOTAL: CUT

My name: _____ Date .....

Cut the pieces apart. The four totals are 16, 20, 21, 28.

8 rows of 2	7 + 7 + 7	7 rows of 3
5, 10, 15, 20	4 + 4 + 4 + 4 + 4	4 x 7
7 + 7 + 7 + 7	4 + 4 + 4 + 4	3 x 7
2 rows of 14	4 x 5	2 x 8

PREVIEW

SET B BREAK IT APART

My name: _____ Date .....

The number is broken apart. Fill in the boxes.

1 9 x 6

5	1
9 x 5 = ☐	9 x 1 = ☐

☐ + ☐ = ☐

2 7 x 7

5	2
7 x 5 = ☐	7 x 2 = ☐

☐ + ☐ = ☐

3 6 x 6

5	1
6 x 5 = ☐	6 x 1 = ☐

☐ + ☐ = ☐

4 8 x 8

5	3
8 x 5 = ☐	8 x 3 = ☐

☐ + ☐ = ☐

PREVIEW

DRAW DRAW IT

My name: _____ Date .....

Draw the picture. Then fill in the boxes.

1 Draw 3 groups of 4.

☐ x ☐ = ☐

2 Draw an array: 2 rows of 6.

☐ x ☐ = ☐

3 Draw 4 groups of 5.

☐ x ☐ = ☐

4 Draw an array: 3 rows of 3.

☐ x ☐ = ☐

PREVIEW

ANSWER KEY: ANSWER KEY: SKIP, BREAK, TENS

SKIP COUNTING (PAGE 15)

#	ROW	BLANKS (AND THE WHOLE ROW)
1	Count by 2	4, 8, 10 (all: 2, 4, 6, 8, 10, 12)
2	Count by 5	5, 15, 25 (all: 5, 10, 15, 20, 25, 30)
3	Count by 3	6, 9, 15 (all: 3, 6, 9, 12, 15, 18)
4	Count by 4	12, 16, 24 (all: 4, 8, 12, 16, 20, 24)
5	Count by 6	12, 30, 36 (all: 6, 12, 18, 24, 30, 36)
6	Count by 8	24, 40, 48 (all: 8, 16, 24, 32, 40, 48)

BREAK IT APART (SETS A, B)

ITEM	PROBLEM	PARTS
Set A-1	6 x 8	6 x 5 = 30, 6 x 3 = 18, 30 + 18 = 48
Set A-2	7 x 6	7 x 5 = 35, 7 x 1 = 7, 35 + 7 = 42
Set A-3	4 x 9	4 x 5 = 20, 4 x 4 = 16, 20 + 16 = 36
Set A-4	8 x 7	8 x 5 = 40, 8 x 2 = 16, 40 + 16 = 56
Set B-1	9 x 6	9 x 5 = 45, 9 x 1 = 9, 45 + 9 = 54
Set B-2	7 x 7	7 x 5 = 35, 7 x 2 = 14, 35 + 14 = 49
Set B-3	6 x 6	6 x 5 = 30, 6 x 1 = 6, 30 + 6 = 36
Set B-4	8 x 8	8 x 5 = 40, 8 x 3 = 24, 40 + 24 = 64

TENS AND ONES (PAGE 21)

#	PROBLEM	PARTS
1	3 x 24	3 x 20 = 60, 3 x 4 = 12, 60 + 12 = 72
2	4 x 13	4 x 10 = 40, 4 x 3 = 12, 40 + 12 = 52
3	2 x 35	2 x 30 = 60, 2 x 5 = 10, 60 + 10 = 70
4	5 x 12	5 x 10 = 50, 5 x 2 = 10, 50 + 10 = 60

PREVIEW

TRACKER

MULTIPLICATION TRACKER

STUDENT _____ TEACHER _____ MONTH _____

PRACTICE PAGE	TRY	DATE	HOW MANY RIGHT	NOTES
Equal Groups	First try			
Equal Groups	Second try			
Arrays	First try			
Arrays	Second try			
Skip Counting	First try			
Skip Counting	Second try			
Same Total	First try			
Same Total	Second try			
Break It Apart	First try			
Break It Apart	Second try			
Tens and Ones	First try			
Tens and Ones	Second try			
Draw It	First try			
Draw It	Second try			

PREVIEW

How to fill this in

Date each cell the day the child does that page with no prompt, and write how many were right out of the total (for example 3 of 4). "Second try" is a different day, not a redo of the same page. A blank means not tried yet. Answer keys: pages 23, 24, 25. Filled example: page 30.

THIS MONTH WE ARE WORKING ON

FAMILY NOTE

THIS WEEK'S MULTIPLICATION PICTURE

STUDENT

WEEK OF

THIS WEEK'S PAGE

A ready-to-send update. Everything below is a blank for your own wording; the phrase bank (page 31) has starters.

THE MULTIPLICATION PICTURE WE ARE USING IN CLASS

A WAY I SAW A STUDENT SHOW A MULTIPLICATION FACT THIS WEEK

A WAY TO PRACTICE AT HOME (DRAW GROUPS, OR MAKE ROWS WITH SMALL OBJECTS)

SOMETHING TO CELEBRATE THIS WEEK

NOTE FROM THE TEACHER

NOTE FROM HOME

TEACHER SIGNATURE

FAMILY SIGNATURE (OPTIONAL)

PREVIEW

EXAMPLE AVERY'S TRACKER

Avery R. is invented; nothing on this page describes a real student. The blank tracker is on page 26.

STUDENT	TEACHER	MONTH
Avery R. (an invented student)	Mr. Alvarez (invented)	September

PRACTICE PAGE	TRY	DATE	HOW MANY RIGHT	NOTES
Equal Groups	First try	9/8	3 of 4	–
Equal Groups	Second try	9/22	4 of 4	–
Arrays	First try	9/12	2 of 4	Mixed up rows and columns
Arrays	Second try	9/26	4 of 4	–
Skip Counting	First try	9/15	5 of 6	–
Skip Counting	Second try	–	–	–
Same Total	First try	9/19	10 of 12	–
Same Total	Second try	–	–	–
Break It Apart	First try	–	–	–
Break It Apart	Second try	–	–	–
Tens and Ones	First try	–	–	–
Tens and Ones	Second try	–	–	–
Draw It	First try	–	–	–
Draw It	Second try	–	–	–

How to read it

Avery R. has a first try recorded for **4 of 7** practice pages and a second try for **2** of those. Not started: Break It Apart, Tens and Ones, Draw It. Every number comes from the table above.

The family note this tracker would produce

"So far in September Avery R. has done 4 of our 7 multiplication pages, with a second try already on 2 of them. Arrays went from 2 of 4 to 4 of 4; Break It Apart, Tens and Ones and Draw It have not been started yet."

What's next for Avery

Start Break It Apart (page 19). Skip Counting and Same Total each have one try recorded and are ready for a second (pages 15, 18).

PREVIEW

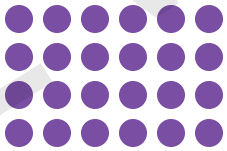
ORGANIZER

BINDER COVER

Slide this into the front of a binder. The divider tabs and a spine label to cut out are on the next page.

MATH · MULTIPLICATION STRATEGIES

MULTIPLICATION ANCHOR CHART



TEACHER

CLASS OR STUDENT

PREVIEW