

Multiplication & Division

Fact Fluency Bundle

the Mystery: ÷9 Facts Name: _____

Solve each problem in the picture. Use the table to find the color to shade in section of the picture.

Dividend	Divisor	Quotient	Shade this color
45	÷ 9	5	orange
27	÷ 9	3	yellow
18	÷ 9	2	blue
36	÷ 9	4	green
72	÷ 9	8	purple
90	÷ 9	10	pink
54	÷ 9	6	light blue
36	÷ 9	4	green
18	÷ 9	2	blue
9	÷ 9	1	yellow

MULTIPLICATION Connect 4

Roll a 10-sided die or spin a 1-10 spinner. Use that number to multiply. Find the product below and shade the circle or place a game chip on it. Players take turns until one player wins by getting 4 in a row!

27	18	72	90	63	27	45	72
81	72	36	45	18	54	9	63
54	63	27	9	81	90	27	45
63	18	72	90	45	36	54	81
9	63	27	81	18	90	63	90

9x Fact Strategies

Finger Trick

- Put up 10 fingers.
- Fold under the finger of the factor you are multiplying by 9. Count from your left pinky to your right pinky.
- Count the number of fingers to the left of the finger you folded down. This is the digit in the tens place of your answer.
- Count the number of fingers to the right of the finger you folded down. This is the digit in the ones place of your answer.

9 x 4
Fold down your 4th finger

9 x 4 =

Cross out the finger that gets folded down. Number the other fingers to solve.

9 x 6 =

9 x 8 =

Includes Strategies

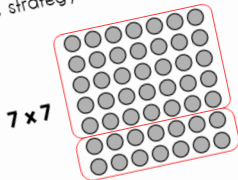
Strategy Pages

For each set of Multiplication Facts

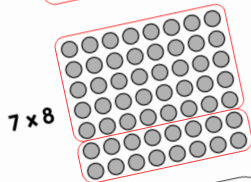
7 x Fact Strategies

Break It Apart

Multiplying by 7, means making 7 groups, so I can use a 5 x fact, and add the 2 x fact.
This strategy uses the distributive property of multiplication.



$$\begin{array}{r} 5 \times 7 = 35 \\ 2 \times 7 = 14 \\ \hline 7 \times 7 = 49 \end{array}$$



$$\begin{array}{r} 5 \times 8 = 40 \\ 2 \times 8 = 16 \\ \hline 7 \times 8 = 56 \end{array}$$

7 x 6

$$\begin{array}{r} 5 \times 6 = 30 \\ 2 \times 6 = 12 \\ \hline 7 \times 6 = 42 \end{array}$$

7 x 9

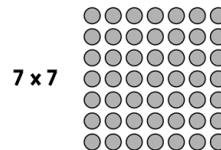
$$\begin{array}{r} 5 \times 9 = 45 \\ 2 \times 9 = 18 \\ \hline 7 \times 9 = 63 \end{array}$$

7 x Fact Strategies

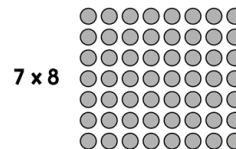
Break It Apart

Multiplying by 7, means making _____, so I can use a _____, and add the _____.

This strategy uses the distributive property of multiplication.



$$\begin{array}{r} 5 \times = \\ 2 \times = \\ \hline \end{array}$$



$$\begin{array}{r} 5 \times = \\ 2 \times = \\ \hline \end{array}$$

7 x 6

$$\begin{array}{r} 5 \times = \\ 2 \times = \\ \hline \end{array}$$

7 x 9

$$\begin{array}{r} 5 \times = \\ 2 \times = \\ \hline \end{array}$$

Perfect for math stations,
seatwork or tutoring.

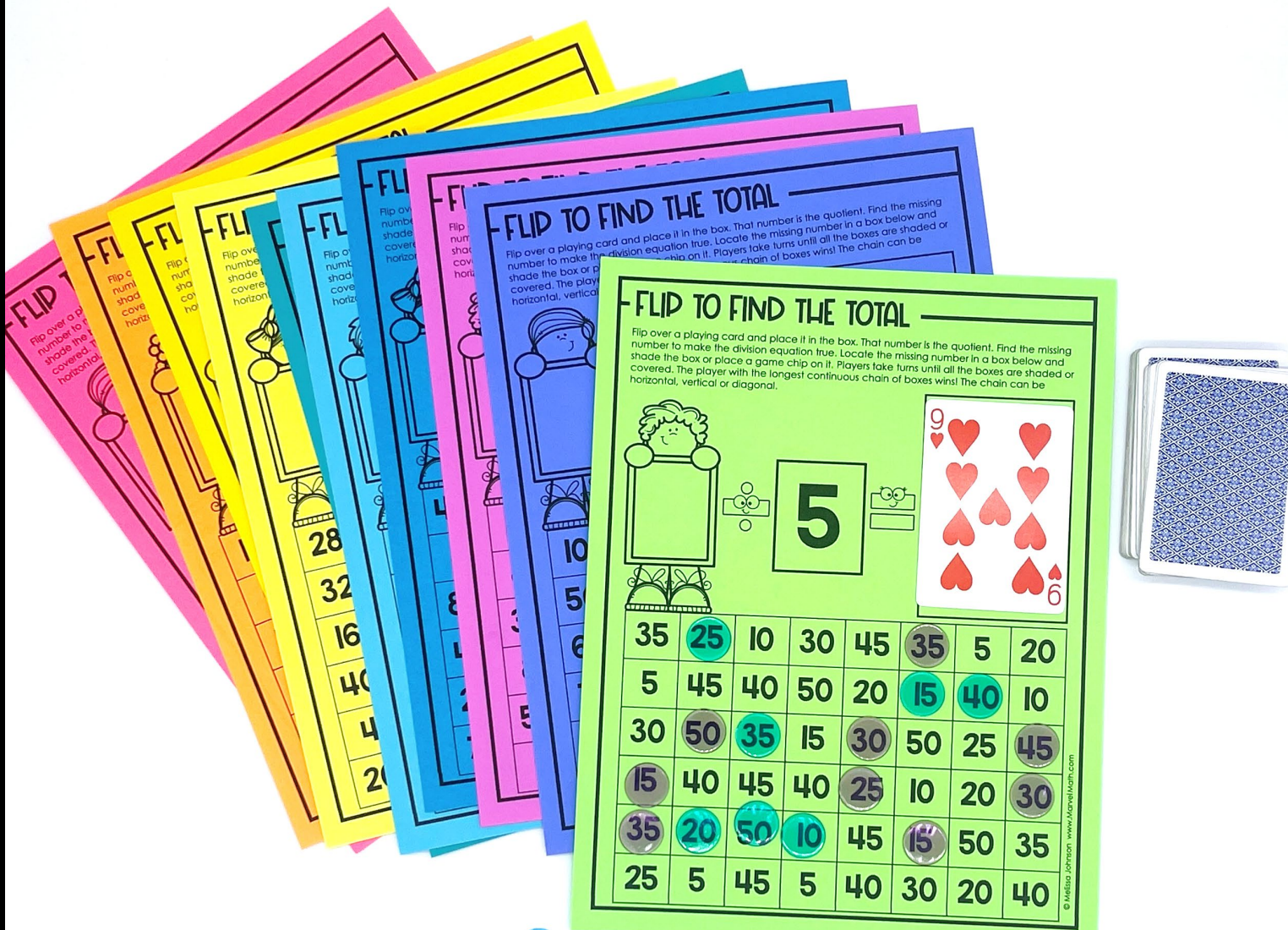
100 No Prep Games

For fun practice of all multiplication and division facts



Differentiate your Stations

With games that get progressively more challenging



Triangle Flash Cards & Activities

To connect Multiplication and Division

The image displays a variety of triangle flash cards for multiplication and division, each labeled with a number and its corresponding factors and product. The cards are arranged in a fan-like pattern. A clipboard holds a worksheet titled "ILLUSTRATE IT" which provides a template for students to copy numbers from the flash cards and illustrate multiplication and division facts using drawings.

Flash Cards:

- 1's: factor x factor = product
- 2's: factor x factor = product
- 3's: factor x factor = product
- 4's: factor x factor = product
- 5's: factor x factor = product
- 6's: factor x factor = product
- 7's: factor x factor = product
- 8's: factor x factor = product
- 9's: factor x factor = product
- 10's: factor x factor = product

Worksheet: ILLUSTRATE IT

Copy the numbers from one triangle flash card onto the blank card below. Then write the 4 related multiplication and division facts for that card.

Example: $15 \div 3 = 5$, $5 \times 3 = 15$, $15 \div 5 = 3$, $3 \times 5 = 15$

Rewrite one of the multiplication facts from above and then illustrate the fact by drawing circles to represent the number of groups and small objects (squares, stars or x's) inside each group. Then write the division fact that the picture also illustrates.

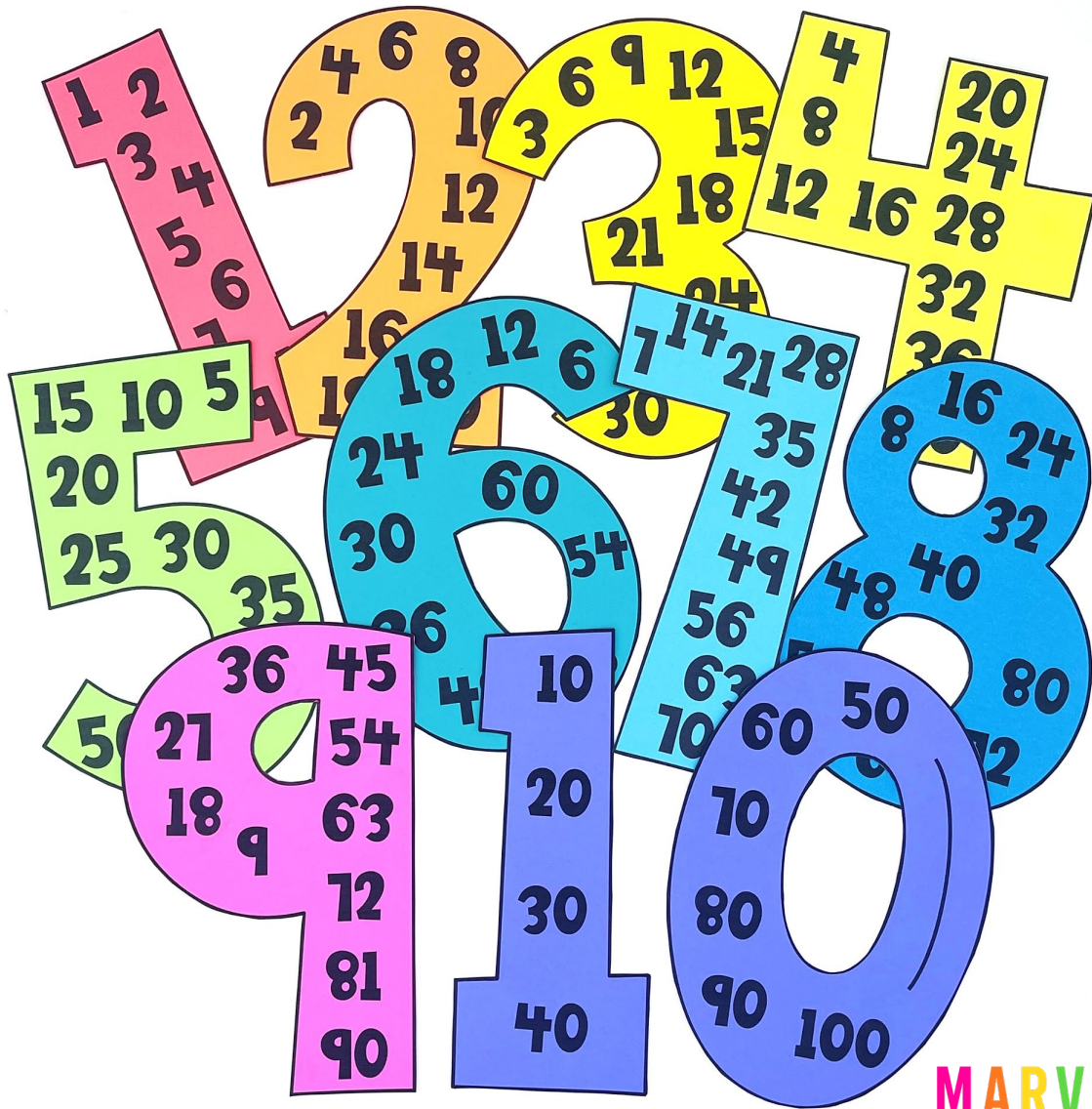
Example: $5 \times 3 = 15$ (5 groups of 3 x's each) and $15 \div 5 = 3$ (15 total x's divided into 5 groups of 3 each).

Illustration: A drawing of a green triangle with the number 15 at the top and 5 at the bottom. Below the triangle are two rows of circles, each containing three 'x's, representing the multiplication fact $3 \times 5 = 15$ and the division fact $15 \div 3 = 5$.

Markers: A green marker and a blue marker are shown next to the flash cards. A red marker is shown next to the worksheet.

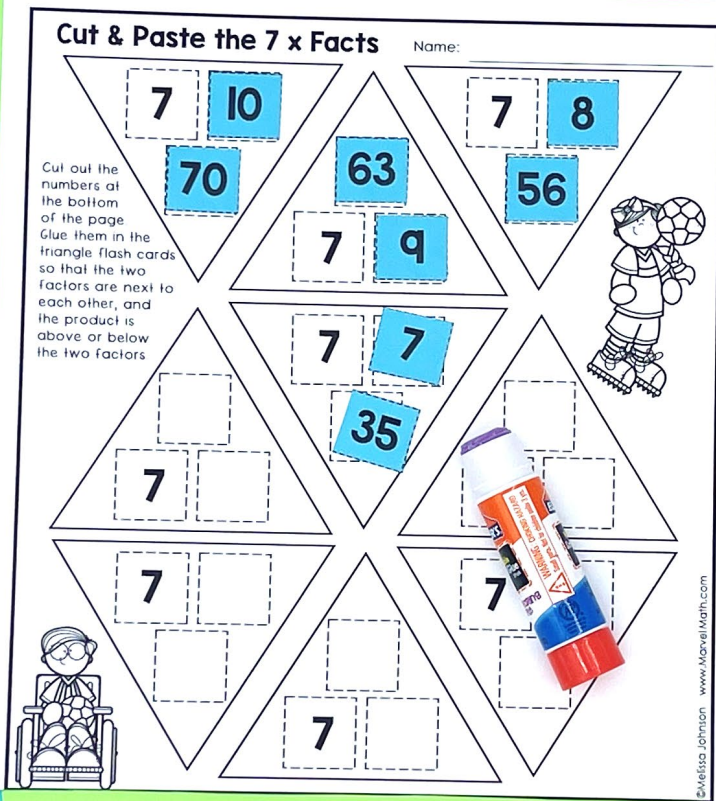
Skip Counting Posters

to display in your classroom



Variety of Meaningful Activities

to learn each set of facts



Print & Go Practice that includes word problems and input output tables!

Taco Fun 2 x Facts Name: _____

Count 2's

A taco truck sells tacos for \$2 each. Complete the table to show the total cost of different amounts of tacos.

Number of Tacos	Total Cost in Dollars
1	
2	
4	
5	
7	
8	
9	

The taco truck also sells churros for \$2 each. Complete the table to show the total cost of different amounts of churros.

Number of Churros	Total Cost in Dollars
2	
3	
5	
6	
7	
9	
10	

Maracas are sold in sets. There are 2 maracas in each set. How many maracas are in 8 sets?

Jalissa made papel picado. She spent 2 minutes cutting each sheet. How many minutes did it take to make 5 sheets?

Raj put 9 bags of candy in a piñata. Each bag of candy had 2 pounds of candy. How many pounds of candy did he put in the piñata?

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Soccer Stadium: 7 x Facts

Name: _____

Skip count by 7's



A soccer team runs sprints for 7 minutes at the end of every practice. Complete the table to see the total number of minutes the team will run sprints after different numbers of practices.

Number of Practices	Total Minutes of Sprints
1	7
2	14
4	28
5	35
7	49
8	56
9	63

A soccer stadium sells nacho trays for \$7 each. Complete the table to show the total cost for different quantities of nacho trays.



Number of Nacho Trays	2	3	5	6	7	9	10
Total Cost in Dollars	14	21	35	42	49	63	70

New soccer balls are \$10 each. What is the cost for 7 soccer balls?



$$7 \times 10 = \$70$$

Sports drinks come in packs of 6. An ice chest can fit 7 packs of sports drinks. How many sports drinks can fit inside the ice chest?

$$6 \times 7 = 42$$

A soccer team put the net on the goal before every practice. It takes 7 minutes to put the net on. How much time will be spent putting the net on for 8 practices?

$$8 \times 7 = 56$$



Study Multiplication Patterns

Perfect for enrichment!

Multiples of 3

Shade every number that you would say if you were skip counting by 3's.

Multiples of 3 are the answers, which are also called products, when you multiply a number by 3.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$3 \times 1 = 3$

$3 \times 2 = 6$

$3 \times 3 = 9$

$3 \times 4 = 12$

$3 \times 5 = 15$

$3 \times 6 = 18$

$3 \times 7 = 21$

$3 \times 8 = 24$

$3 \times 9 = 27$

$3 \times 10 = 30$

Every third number is a multiple of 3.

Multiples of 3 follow a pattern of odd, even, odd, even and so on.

A pattern I see on the hundred chart for multiples of 3 is

that the numbers are in diagonal chains. In each diagonal the ones place

counts backwards by one, such as in 9, 18, 27... (There are many other patterns).

Teacher Key is Included!

Find the 4 x Facts

Name: _____

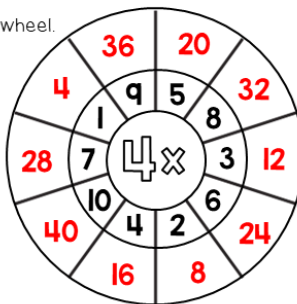
Skip count
by 4's

4	8	12	16	20	24	28	32	36	40
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Shade the path that skip
counts by 4's.

6	5	24	36	40
Start 4	8	10	32	34
10	12	16	28	30
12	14	20	24	26

Complete the
multiplication wheel.



Solve each math fact. Then find it in the number search below. One problem is
already done for you.

$4 \times 2 = 8$ $4 \times 6 = 24$ $4 \times 3 = 12$ $4 \times 8 = 32$

$4 \times 5 = 20$ $4 \times 1 = 4$ $4 \times 10 = 40$

$4 \times 7 = 28$ $4 \times 9 = 36$ $4 \times 4 = 16$



$4 \times 1 = 4$	28	4	16	8	$4 \times 2 = 8$	16	20
20	30	8	36	6	40	4	32
5	$4 \times 7 = 28$	24	4	9	$4 \times 10 = 40$	4	8
4	12	32	$4 \times 3 = 12$	36	24	12	36

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

