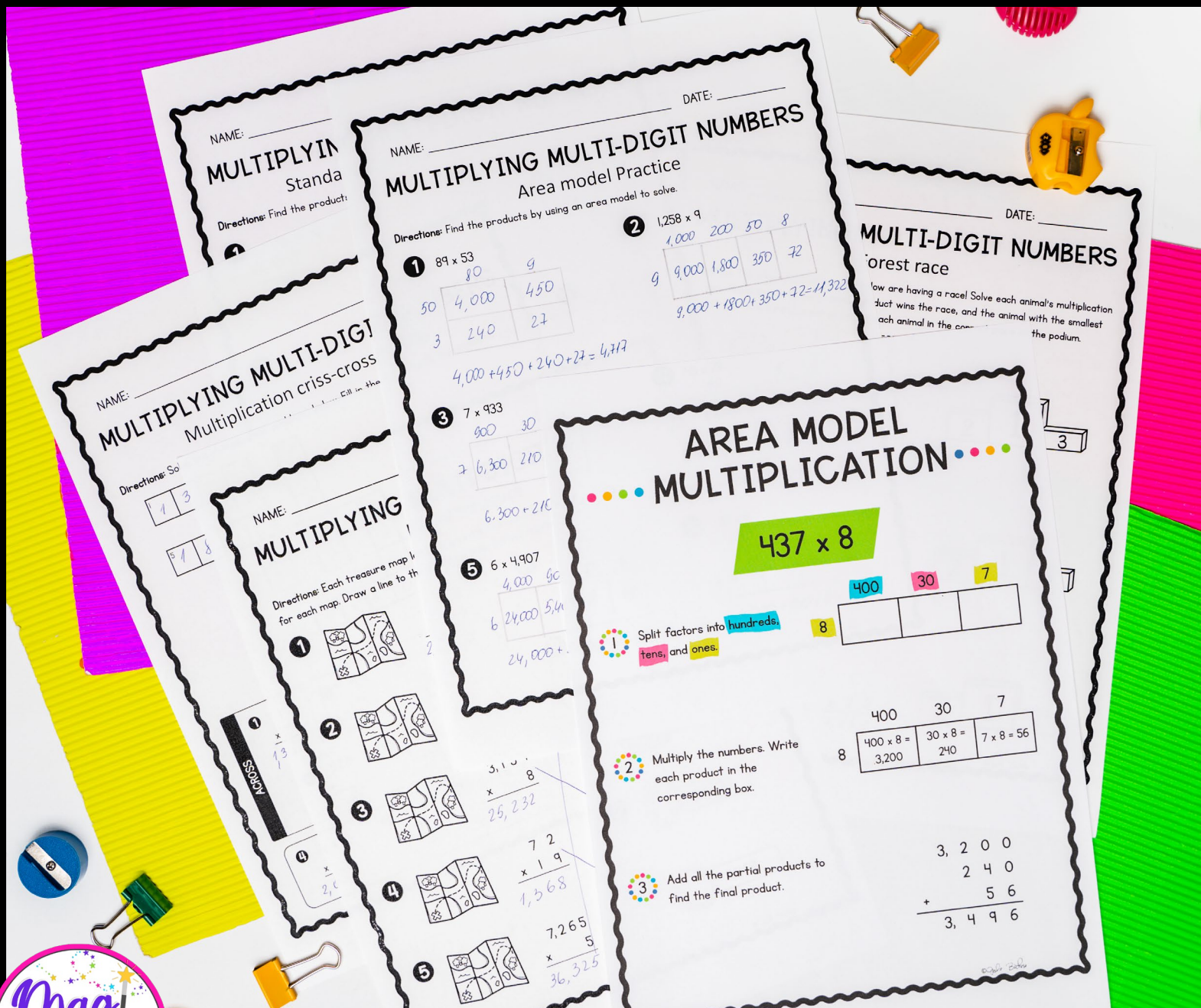


MULTIPLYING MULTI-DIGIT NUMBERS

4th Grade



Printable & Google Slides

NAME: _____ DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

Standards
Directions: Find the product

1

$$\begin{array}{r} 234 \\ \times 2 \\ \hline 468 \end{array}$$

NAME: _____ DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

Area Model Practice
Use an area model to solve.

AREA MODEL MULTIPLICATION

437 x 8

Break factors into hundreds, tens, and ones.



	400	30	7
8	$400 \times 8 = 3,200$	$30 \times 8 = 240$	$7 \times 8 = 56$

Multiply the numbers. Write each product in the corresponding box.

$$\begin{array}{r} 3,200 \\ 240 \\ + 56 \\ \hline 3,496 \end{array}$$

2 $1,258 \times 9$

	1,000	200	50	8
9	9,000	1,800	350	72

$9,000 + 1,800 + 350 + 72 = 11,322$

4 45×28

	40	5
20	8,000	100
8	320	40

$8,000 + 100 + 320 + 40 = 8,460$

6 521×8

	500	20	1
8	4,000	160	8

$4,000 + 160 + 8 = 4,168$

LYING MULTI-DIGIT

DATE: _____

T NUMBERS

the multiplication problem
product.

3,042

36,325

2,632

5,232

58



MULTIPLYING MULTI-DIGIT NUMBERS

Standard algorithm 3 x 1 Practice

the products.

MULTI-DIGIT NUMBERS

criss-cross puzzle

ms below. Fill in the puzzle with the products.

MULTI-DIGIT NUMBERS

practice

el to solve.

1,258 x 9
1,000 200
9 9,000 1,800
9,000 +

4 45 x
20
8

21 = 6,534

600 0 7
0 5,400 0 42
1,000 + 5,400 + 0 + 42 = 29,442

DATE: _____

$$\begin{array}{r} 42 \\ \times 848 \\ \hline \end{array}$$

$$\begin{array}{r} 563 \\ \times 5 \\ \hline 2,815 \end{array}$$

$$\begin{array}{r} 9 \\ \times 7,232 \\ \hline \end{array}$$

NAME: _____

DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

Forest race

Directions: The trios of forest animals below are having a race. The animal with the greatest distance comes in first.



$$\begin{array}{r} 5 \\ \times 4 \\ \hline 2632 \end{array}$$



$$\begin{array}{r} 4,092 \\ \times 6 \\ \hline 24,552 \end{array}$$



AREA MODEL MULTIPLICATION

$$437 \times 8$$

400 30 7

8

400	30	7
400 x 8 = 3,200	30 x 8 = 240	7 x 8 = 56

$$\begin{array}{r} 3,200 \\ 240 \\ + 56 \\ \hline 3,496 \end{array}$$

AREA MODEL MULTIPLICATION

$$56 \times 72$$

1 Split both factors into tens and ones.

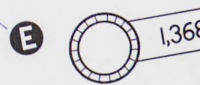
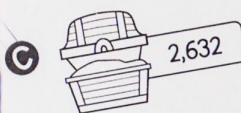
	70	2
50		
6		

2 Multiply the numbers. Write each product in the corresponding box.

	70	2
50	50 x 70 = 3,500	50 x 2 = 100
6	6 x 70 = 420	6 x 2 = 12

3 Add all the partial products to find the final product.

$$\begin{array}{r} 3,500 \\ 100 \\ 420 \\ + 12 \\ \hline 4,032 \end{array}$$



$$\begin{array}{r} 72 \\ \times 19 \\ \hline 1,368 \end{array}$$

$$\begin{array}{r} 7,265 \\ \times 5 \\ \hline 36,325 \end{array}$$

[illegible]

AREA MODEL MULTIPLICATION

DATE: _____

DIGIT NUMBERS

cross puzzle

in the puzzle with the products.

4	2	3	0	3
0				
8	2	5		
2				

19 8

DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

Forest race

Directions: The trios of forest animals below are having a race! Solve each animal's multiplication problem. The animal with the greatest product wins the race, and the animal with the smallest product comes in third. Cut out and paste each animal in the correct place on the podium.

1



$$\begin{array}{r} 56 \\ \times 47 \\ \hline 2632 \end{array}$$

2



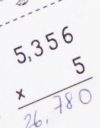
$$\begin{array}{r} 62 \\ \times 35 \\ \hline 2170 \end{array}$$

3



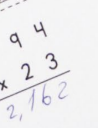
$$\begin{array}{r} 29 \\ \times 71 \\ \hline 2059 \end{array}$$

4



$$\begin{array}{r} 4092 \\ \times 6 \\ \hline 24552 \end{array}$$

5



$$\begin{array}{r} 3721 \\ \times 7 \\ \hline 26047 \end{array}$$

6



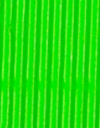
$$\begin{array}{r} 5356 \\ \times 5 \\ \hline 26780 \end{array}$$

7



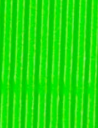
$$\begin{array}{r} 2403 \\ \times 9 \\ \hline 21627 \end{array}$$

8



$$\begin{array}{r} 37 \\ \times 89 \\ \hline 3293 \end{array}$$

9



$$\begin{array}{r} 94 \\ \times 23 \\ \hline 2162 \end{array}$$

MULTIPLYING MULTI-DIGIT NUMBERS

standard algorithm practice

Directions: Solve the multiplication problems. Write your products in the blue boxes. Use the yellow boxes to regroup. For 2 x 2 problems, write your final answer in the green boxes. You might not use all of the boxes in each problem.

1

$$\begin{array}{r} 54 \\ \times 28 \\ \hline \end{array}$$

2

$$\begin{array}{r} 428 \\ \times 9 \\ \hline \end{array}$$

3

$$\begin{array}{r} 36 \\ \times 75 \\ \hline \end{array}$$



AREA MODEL MULTIPLICATION

437 x 8

1 Split factors into **hundreds**, **tens**, and **ones**.

400	30	7
8		

2 Multiply #

30	7
$30 \times 8 = 240$	$7 \times 8 = 56$

3, 2 0 0
2 4 0
5 6
4 9 6

DATE: _____

MULTI-DIGIT NUMBERS

MULTIPLYING MULTI-DIGIT NUMBERS

area model 3 x 1 practice

Directions: Find the products by using an area model to solve.

5 326×3

6 485×9

CRIS-CROSS

Fill in the problems below.

5	4	0	9	1
3	4	9	1	9
2				

4 1 8

ACROSS

1 $18 \times 74 = 1332$

2 $3204 \times 8 = 25,632$

3 $6011 \times 9 = 54,099$

4 $526 \times 7 = 3,682$

5 $694 \times 3 = 2,082$

6 $836 \times 5 = 4,180$

7 $96 \times 45 = 4,320$

8 $2116 \times 4 = 8,464$

DOWN

1 1896

2 $1,896$

3 $1,896$

4 $1,896$

5 $1,896$

6 $1,896$

7 $1,896$

8 $1,896$

6,300 + 210 + 21 = 6,531

5 $6 \times 4,907$

4,000	900	0	7	
6	24,000	5,400	0	42

24,000 + 5,400 + 0 + 42 = 29,442

6 8×320

8,000 + 100 + 320 = 8,442

4,000 + 160 + 320 = 4,480

3 7 2,403 9 4
 $\times 89$ $\times 9$ $\times 23$
3,293 21,627 2,162

2 1 3

MULTIPLYING MULTI-DIGIT NUMBERS

4th grade

Table of Contents

1. Anchor Charts (4 pages)
2. Standard Algorithm Practice Pages (6 pages)
3. Area Model Practice Pages (5 pages)
4. Multiplication Games and Activities (21 pages)
5. Word Problems (10 pages)
6. Test Review (4 pages)
7. Test (4 pages)



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MULTIPLYING MULTI-DIGIT NUMBERS

standard algorithm 3 x 1 practice

Directions: Find the products.

1

$$\begin{array}{r} 234 \\ \times 2 \\ \hline \end{array}$$

2

$$\begin{array}{r} 103 \\ \times 3 \\ \hline \end{array}$$

3

$$\begin{array}{r} 424 \\ \times 2 \\ \hline \end{array}$$

4

$$\begin{array}{r} 352 \\ \times 3 \\ \hline \end{array}$$

5

$$\begin{array}{r} 702 \\ \times 4 \\ \hline \end{array}$$

6

$$\begin{array}{r} 563 \\ \times 5 \\ \hline \end{array}$$

7

$$\begin{array}{r} 694 \\ \times 6 \\ \hline \end{array}$$

8

$$\begin{array}{r} 832 \\ \times 7 \\ \hline \end{array}$$

9

$$\begin{array}{r} 904 \\ \times 8 \\ \hline \end{array}$$

10

$$\begin{array}{r} 166 \\ \times 4 \\ \hline \end{array}$$

11

$$\begin{array}{r} 547 \\ \times 2 \\ \hline \end{array}$$

12

$$\begin{array}{r} 280 \\ \times 5 \\ \hline \end{array}$$

NAME: _____

DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

standard algorithm 3 / 4 x 1 practice

Directions: Find the products.

1

$$\begin{array}{r} 367 \\ \times 3 \\ \hline \end{array}$$

2

$$\begin{array}{r} 504 \\ \times 6 \\ \hline \end{array}$$

3

$$\begin{array}{r} 721 \\ \times 9 \\ \hline \end{array}$$

4

$$\begin{array}{r} 883 \\ \times 5 \\ \hline \end{array}$$

5

$$\begin{array}{r} 479 \\ \times 7 \\ \hline \end{array}$$

6

$$\begin{array}{r} 930 \\ \times 4 \\ \hline \end{array}$$

7

$$\begin{array}{r} 2,048 \\ \times 2 \\ \hline \end{array}$$

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$$\begin{array}{r} 3,695 \\ \times 4 \\ \hline \end{array}$$

9

$$\begin{array}{r} 6,200 \\ \times 5 \\ \hline \end{array}$$

10

$$\begin{array}{r} 1,793 \\ \times 8 \\ \hline \end{array}$$

11

$$\begin{array}{r} 5,127 \\ \times 6 \\ \hline \end{array}$$

12

$$\begin{array}{r} 4,326 \\ \times 7 \\ \hline \end{array}$$

NAME: _____

DATE: _____

MULTIPLYING MULTI-DIGIT NUMBERS

standard algorithm 4 x 1 practice

Directions: Find the products.

1

$$\begin{array}{r} 2,864 \\ \times \quad 5 \\ \hline \end{array}$$

2

$$\begin{array}{r} 3,107 \\ \times \quad 3 \\ \hline \end{array}$$

3

$$\begin{array}{r} 6,955 \\ \times \quad 4 \\ \hline \end{array}$$

4

$$\begin{array}{r} 7,024 \\ \times \quad 8 \\ \hline \end{array}$$

5

$$\begin{array}{r} 1,990 \\ \times \quad 6 \\ \hline \end{array}$$

6

$$\begin{array}{r} 9,426 \\ \times \quad 7 \\ \hline \end{array}$$

7

$$\begin{array}{r} 8,283 \\ \times \quad 2 \\ \hline \end{array}$$

8

$$\begin{array}{r} 4,752 \\ \times \quad 9 \\ \hline \end{array}$$

9

$$\begin{array}{r} 5,417 \\ \times \quad 5 \\ \hline \end{array}$$

10

$$\begin{array}{r} 6,021 \\ \times \quad 3 \\ \hline \end{array}$$

11

$$\begin{array}{r} 1,984 \\ \times \quad 8 \\ \hline \end{array}$$

12

$$\begin{array}{r} 6,501 \\ \times \quad 4 \\ \hline \end{array}$$

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MULTIPLYING MULTI-DIGIT NUMBERS

forest race

Directions: The trios of forest animals below are having a race! Solve each animal's multiplication problem. The animal with the greatest product wins the race, and the animal with the smallest product comes in third. Cut out and paste each animal in the correct place on the podium.

1



$$\begin{array}{r} 56 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times 71 \\ \hline \end{array}$$



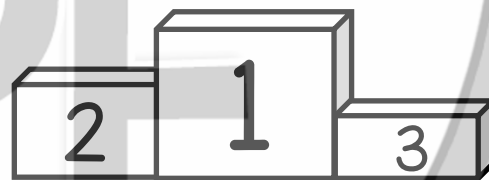
2



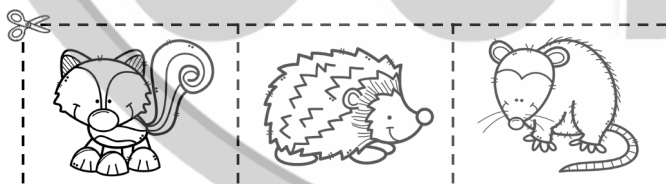
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$$\begin{array}{r} 5,356 \\ \times 5 \\ \hline \end{array}$$



3



$$\begin{array}{r} 37 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 2,403 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 94 \\ \times 23 \\ \hline \end{array}$$



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MULTIPLYING MULTI-DIGIT NUMBERS

forest race

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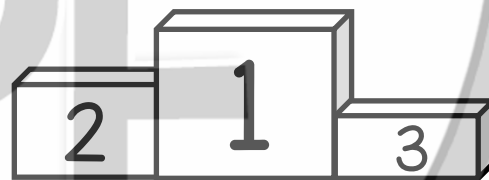
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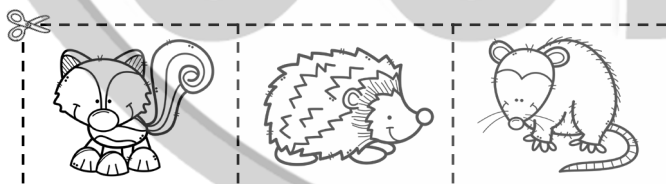
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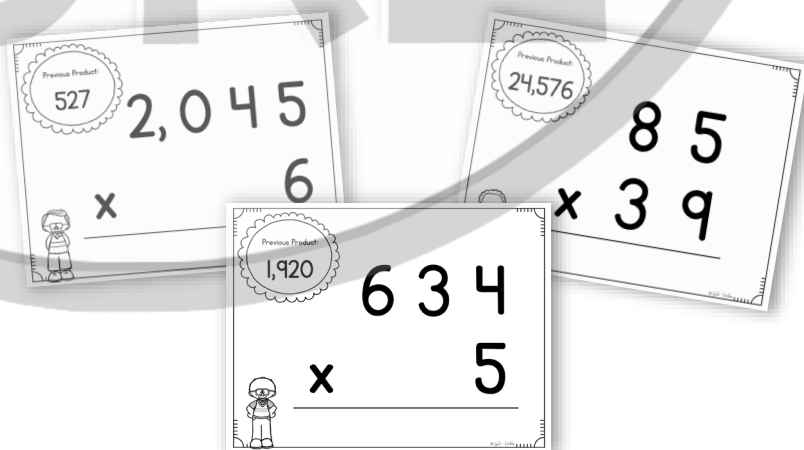
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MULTIPLYING MULTI-DIGIT NUMBERS

product scavenger hunt

Teacher Directions:

1. Print out multiplication problem signs. Hang in different places around the classroom.
2. Distribute answer sheets to students. Students get up and choose any problem around the room to start with. Students copy the problem into the first space on their answer sheets and solve.
3. Once students have solved the problem, they look at the signs around the room until they find one that has the product they calculated in the "Previous Product" circle. Students copy the new multiplication equation in the next space on their answer sheets and repeat the process.
4. Students continue moving around the room, matching their products and solving the multiplication problems. Students will know they successfully answered all problems when the last problem leads them back to the sign they first started at.



NAME: _____

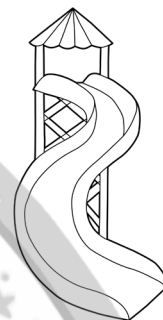
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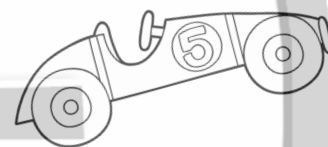
4 x 1 word problems

Directions: Use multiplication to solve the word problems.

- 1** There are 3 waterslides at Aqualandia Water Park. Each waterslide needs 9,482 gallons to operate. How many total gallons of water are needed to operate the waterslides?



- 2** A go kart costs \$2,193. There are 8 go karts at the go kart track. What was the total cost of the go karts?



- 3** The gorilla exhibit at the zoo is shaped like a square. Each side of the exhibit is 1,029 feet long. What is the perimeter of the gorilla exhibit?



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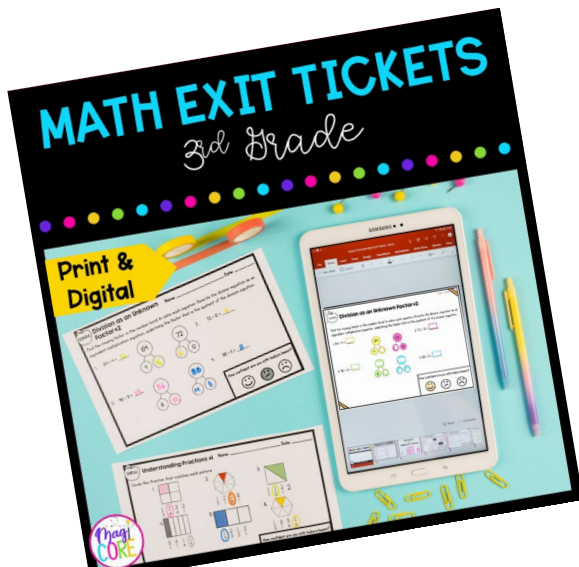


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