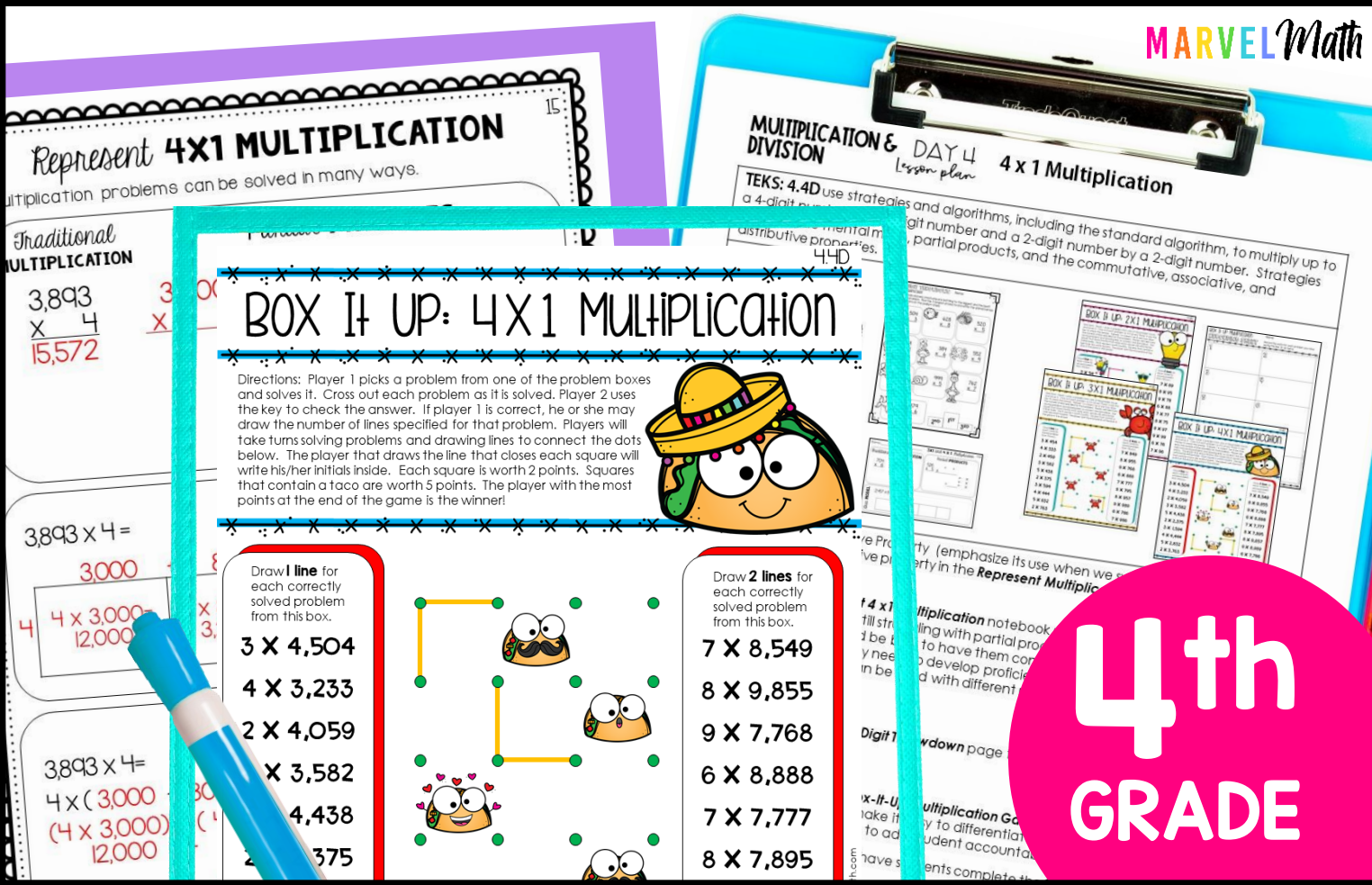


Multiplication & Division

TEKS Unit Bundle



Organized & Easy to Use

4th Grade Multiplication & Division TEKS Tracking Sheet

Exit Slip # →	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Alexander	1	1	1		1	1	1	1								
Valeria	0	½	½		0	0	½	1								
Jaekwon	1	1	1		1	1	1	1								
Chantal	1	1	1		1	1	1	1								
Marco	½	½	1		0	½	1	1								
Enrique	1	1	1		1	1	1	1								
Lillian	1	1	1		1	1	1	1								
Elisa	1	1	1		1	1	1	1								
Ming	0	½	½		½	½	½	1								
Sophie	½	1	1		½	1	1	1								
Miguel	1	1	1		1	1	1	1								
Grace	1	1	1		1	1	1	1								
Marcel	1	1	1		½	1	1	1								
Salim	1	1	1		1	1	1	1								
Misha	0	½	1		0	½	½	1								
Diego	1	1	1		1	1	1	1								
Mia	1	1	1		1	1	1	1								
Rick	½	1	1		½	1	1	1								
Elijah	1	1	1		1	1	1	1								
Evan	½	½	1		0	½	1	1								
Rashid	1	1	1		1	1	1	1								

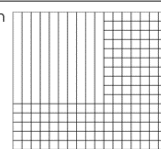
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Name: _____

MULTIPLICATION/DIVISION 4.4C #3

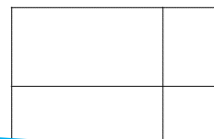
Represent 2x2 multiplication using arrays, area models, or equations, including perfect squares

1. What multiplication problem is represented by this array?



- A. 17×25
B. 10×57
C. 15×17
D. 17×17

2. Complete this area model to represent 28×13 .



Name: _____

MULTIPLICATION/DIVISION 4.4D #4

Determine Products of a Number and 10 or 100 using properties of operations and place value

1. Which table makes this number sense true?

$$\triangle \times 100 = \diamond$$

A

$\triangle$	$\diamond$
55	5,500
66	6,600
77	7,700

B

$\triangle$	$\diamond$
55	5,050
66	6,060
77	7,070

C

$\triangle$	$\diamond$
55	5,005
66	6,006
77	7,007

D

$\triangle$	$\diamond$
55	550
66	660
77	770

Notebook Pages

To introduce each Multiplication and Division Topic

MARVEL Math

A Helpful Strategy for Division 38

Learning the process of long division is difficult, especially when you are trying to remember all your division facts. Here is a helpful strategy if you can't remember your facts.

1

A waffle house has 738 bottles of syrup to place on 6 shelves. How many bottles of syrup will be placed on each shelf if they are sorted equally?

You are dividing by 6

Don't know the multiples of 6? Draw six dots and use them to count on to find the next multiple.

6 $\rightarrow$ 6 12 18 24 30 36 42 48 54

which multiple is it?

6 $\overline{) 738}$

123 bottles

2

There are 992 juggling balls being shipped. The same number of juggling balls will be placed into each of 8 boxes. How many juggling balls will be placed in each box?

You are dividing by 8

Draw dots if you need them.

8 $\rightarrow$ 8 16 24 32 40 48 56 64 72

which multiple is it?

8 $\overline{) 992}$

124 juggling balls

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Represent 3 x 1 Multiplication

Multiplication problems can be solved in many ways.

Traditional Multiplication

$$\begin{array}{r} 123 \\ \times 4 \\ \hline 940 \end{array}$$

Partial Products

$$235 \Rightarrow 200 + 30 + 5$$
$$\begin{array}{r} 235 \\ \times 4 \\ \hline 200 \\ 120 \\ 800 \\ \hline 940 \end{array}$$

Area Model

$$235 \times 4 =$$

$4 \times 200 = 800$	$4 \times 30 = 120$	$4 \times 5 = 20$
----------------------	---------------------	-------------------

Distributive Property

$$235 \times 4 = 4 \times (200 + 30 + 5) = (4 \times 200) + (4 \times 30) + (4 \times 5) = 800 + 120 + 20 = 940$$

Engaging Games

Includes fun games to use at math stations to practice important skills

BOX IT UP: 3 X 1 MULTIPLICATION

Directions: Player 1 picks a problem from one of the problem boxes and solves it. Cross out each problem as it is solved. Player 2 uses the key to check the answer. If player 1 is correct, he or she may draw the number of lines specified for that problem. Players will take turns solving problems and drawing lines to connect the dots below. The player that draws the line that closes each square will write his/her initials inside. Each square is worth 2 points. Squares that contain a crab are worth 5 points. The player with the most points at the end of the game is the winner!

Draw 1 line for each correctly solved problem from this box.

$$3 \times 454$$

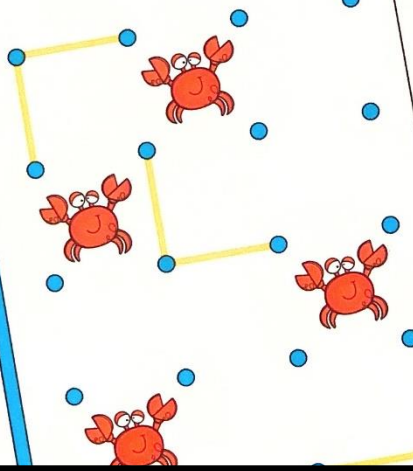
$$4 \times 333$$

$$2 \times 459$$

$$3 \times 582$$

$$5 \times 438$$

$$2 \times 375$$



Draw 2 lines for each correctly solved problem from this box.

$$7 \times 849$$

$$8 \times 955$$

$$9 \times 744$$

$$6 \times 844$$

$$7 \times 844$$

$$8 \times 955$$

$$9 \times 744$$

$$6 \times 844$$

BOX IT UP MULT RECORDING

1

3

5

Task Cards

Print and Digital Versions Included



1 A restaurant has 43 crates of eggs. Each crate contains 48 eggs. How many eggs does the restaurant have?

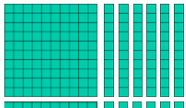
2 Emma and her sister are making clay pots. Each clay pot uses 8 oz. of clay. The girls have 226 oz. of clay. How many pots can they make?

3 Elijah feeds his dog 8 oz. of dog food every day. Every bag of dog food has 125 oz. of food. Elijah has 2 bags of dog food. How many days can he feed his dog?

4 The Houston libraries held an online challenge for students. Today 1,389 students each checked out 5 books as part of the challenge. How many books were checked out?

5 Blue Skies Airline had 76 flights today. Each flight had 58 passengers. How many passengers flew on a Blue Skies Airline flight today?

6 Which multiplication problem is represented by this array?




A. $100 \times 7 \times 6 = 176$ B. $10 \times 7 \times 1 = 176$
C. $17 \times 11 = 176$ D. $11 \times 16 = 176$

Name: Teo

Show your work or justify your answers in the boxes. Record all your answers HERE.

MULTIPLICATION & DIVISION review

1
$$\begin{array}{r} 43 \\ \times 48 \\ \hline 2,064 \end{array}$$

2
$$\begin{array}{r} 28 \overline{) 226} \\ -16 \downarrow \\ 66 \\ -64 \\ \hline 2 \end{array}$$

3
$$\begin{array}{r} 31 \overline{) 250} \\ -24 \downarrow \\ 10 \\ -8 \\ \hline 2 \end{array}$$

4
$$\begin{array}{r} 1,389 \\ \times 5 \\ \hline 6,945 \end{array}$$

5
$$\begin{array}{r} 76 \\ \times 58 \\ \hline 4,408 \end{array}$$

6
$$11 \times 16 = 176$$

7
8
9
10
11

1. 2,064 eggs
2. 28 pots
3. 31 days
4. 6,945 digital books
5. 4,408 passengers
6. D
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.

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What multiplication problem is represented in the area model?



- ☐ 24 x 23
☒ 13 x 24
☐ 23 x 14
☐ 34 x 21

#8 [TEKS 4.4B]

Clear selection

1 point

Which table represents the same relationship?

A.

MARVELMath

To practice skills they need

MARVEL Math

2 Versions of the Unit Test

Printable PDF and Self-Grading
Google Forms for Both Versions

MULTIPLICATION & DIVISION TEST #1

4. A store sells markers in packages of 100. Which table shows the correct relationship between the number of packages and the number of markers?

A.

NUMBER OF PACKAGES	NUMBER OF MARKERS
22	220
83	830
90	900
905	9,050

B.

NUMBER OF PACKAGES	NUMBER OF MARKERS
22	2,020
83	8,030
90	9,000
905	9,0500

C.

NUMBER OF PACKAGES	NUMBER OF MARKERS
22	2,002
83	8,030
90	9,000
905	90,050

D.

NUMBER OF PACKAGES	NUMBER OF MARKERS
22	2,200
83	8,300
90	9,000
905	90,500

Which model represents 42×23 ?

A.

$40 \times 40 = 1600$	$20 \times 20 = 400$
$2 \times 4 = 8$	$3 \times 3 = 9$

C.

$40 \times 20 = 800$	$20 \times 2 = 40$
$40 \times 40 = 1600$	$2 \times 3 = 6$

B.

$40 \times 20 = 800$	$20 \times 2 = 40$
$40 \times 3 = 120$	$2 \times 3 = 6$

D.

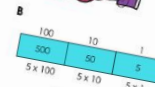
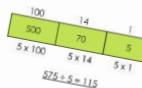
$20 \times 20 = 400$	$20 \times 2 = 40$
$40 \times 2 = 80$	$3 \times 3 = 9$

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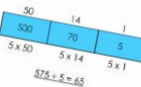
#8 [TEKS 4.4E]

Which model correctly solves $575 \div 5$?

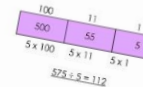
A.



C.



D.



Choose

A.

B.

C.

D.

Muffins that will be packed in a box will contain 9 muffins. How many boxes of muffins will be filled?

Type a number in the space below. Do not use any words in your answer.

Your answer



Vocabulary Bunting

Support your students during your Multiplication and Division Unit

PRODUCT

The product is the answer to a multiplication problem.

$$12 \times 15 = 180$$

FACTORS

Numbers being multiplied together are factors.

MULTIPLICATION

Making equal groups to find the total.

$$4 \times 6$$

4 groups of 6

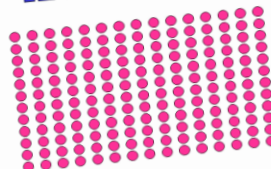


ARRAY

Objects are arranged in a rectangular grid in an array.

$$12 \times 15$$

12 rows of 15



PARTIAL PRODUCTS

$$\begin{array}{r} 12 \rightarrow 10+2 \\ \times 15 \rightarrow \times 10+5 \\ \hline 10 \times 10 = 100 \\ 10 \times 5 = 50 \\ 2 \times 10 = 20 \\ 2 \times 5 = 10 \\ \hline 180 \end{array}$$

Partial products are parts of the final product.

MODEL

$$\times 15$$

length: 15

$$+ 5$$

$$10 \times 5 = 50$$

$$5 \times 5 = 25$$

DISTRIBUTIVE

Property of Multiplication

$$5(3+2)$$

$$(5 \times 3) + (5 \times 2)$$

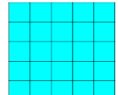
Distribute 5x to each of the addends.

PERFECT SQUARE

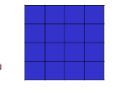
A perfect square is the product of identical factors.

1, 2, 4, 9, 16, and 25 are perfect squares.

$$5 \times 5 = 25$$



$$4 \times 4 = 16$$



$$1 \times 1 = 1$$

$$2 \times 2 = 4$$



$$3 \times 3 = 9$$



ASSOCIATIVE

Property of Multiplication

$$(8 \times 50) \times 5$$

$$8 \times (50 \times 5)$$

You can change the **GROUPING** to make multiplication easier and you will get the same product.

COMMUTATIVE

Property of Multiplication

$$70 \times 20$$

$$20 \times 70$$

You can change the order to make multiplication easier and you will get the same product.

Use these Journal Prompts as a **Early Finisher Work** or **Meaningful Homework**

Mrs. Zavala has a strawberry patch that is 24 ft. long and 18 ft. wide. Represent the problem 24×18 in as many ways as you can. Use arrays, the area model, partial products, and the distributive property.



4.4C #1a

Draw a place value chart and use it to show how to solve these problems:

$$89 \times 10$$

$$760 \times 10$$

$$45 \times 100$$

$$9,600 \times 100$$



4.4B #1a

Draw a place value chart and use it to show how to solve these problems:

$$72 \times 10$$

$$990 \times 10$$

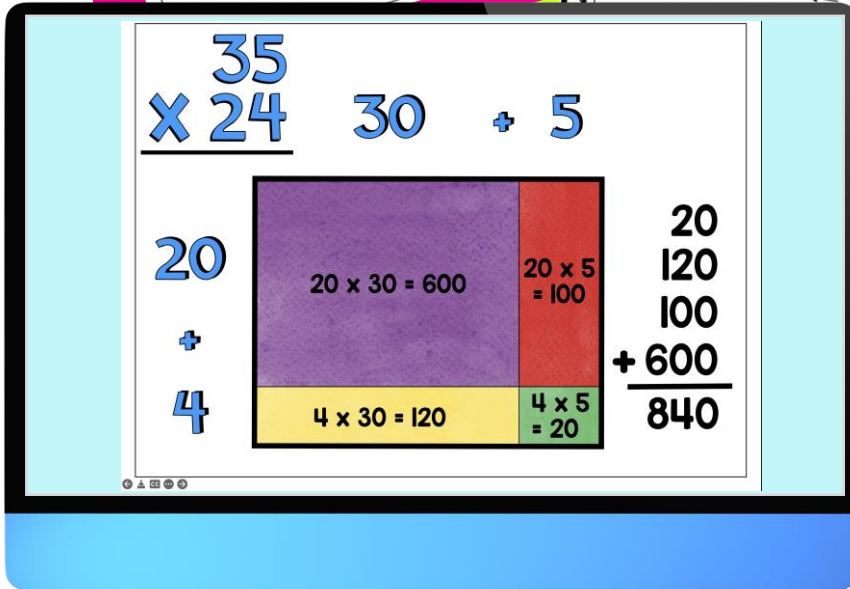
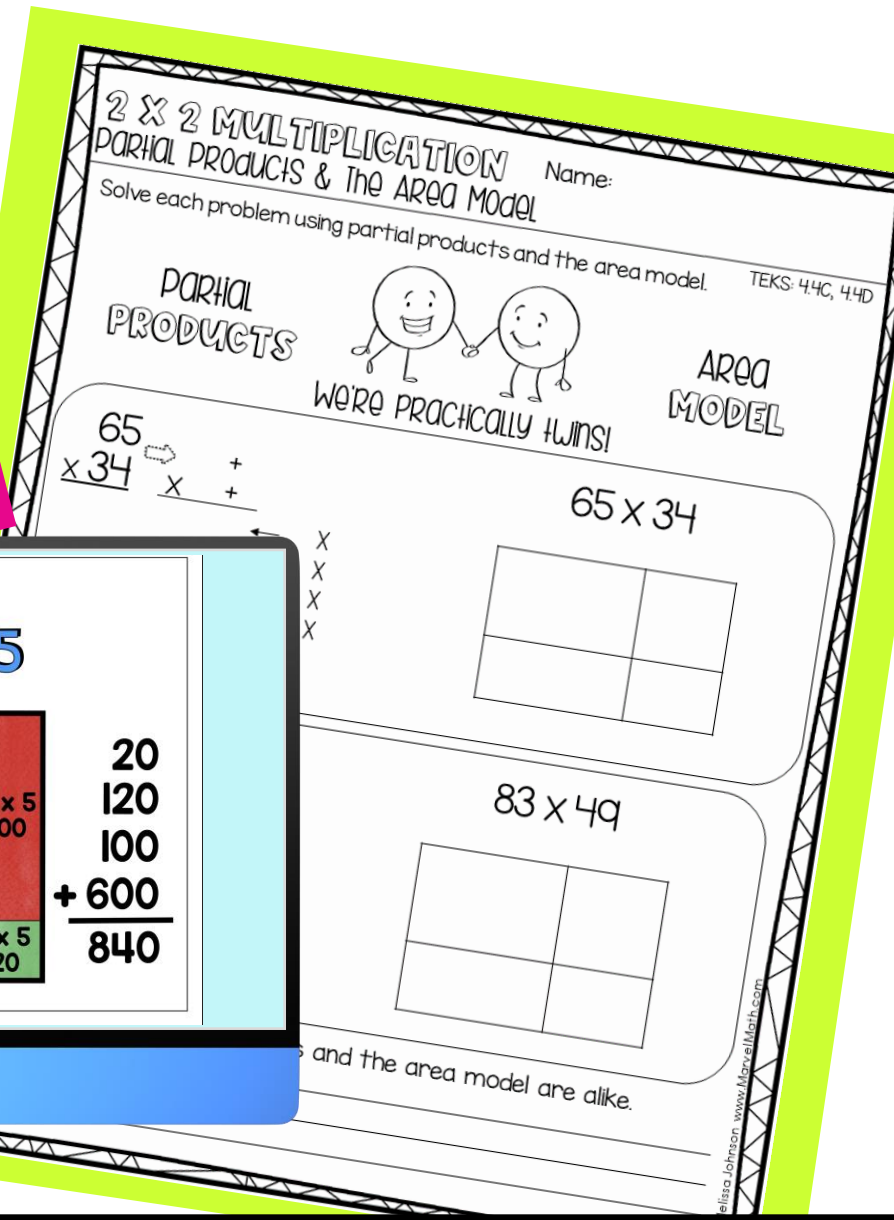
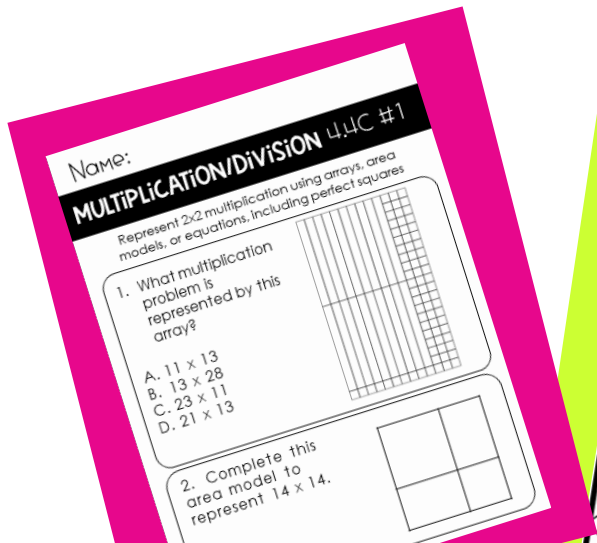
$$36 \times 100$$

$$8,400 \times 100$$



4.4B #1b

Resources that work together seamlessly



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.

