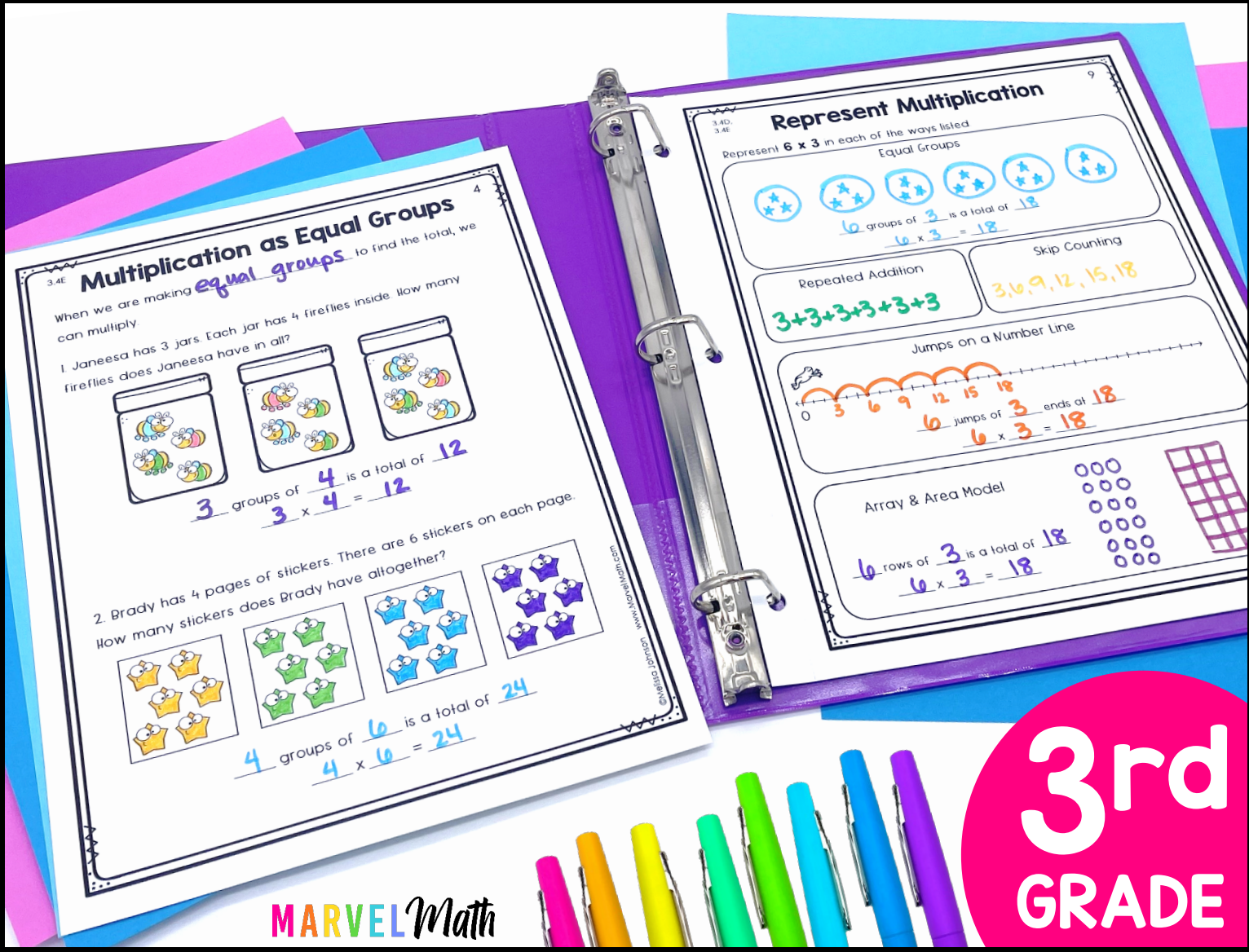


Multiplication & Division

TEKS Notebook



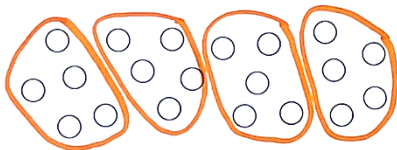
Easy-to-Use Student Pages

3.4H Division as Taking Out Equal Groups 24

Division can also be taking out equal groups from a total amount. We can divide to find the number of groups.

1. Zita has 20 cookies to put into bags. She will put 5 cookies in each bag. How many bags will she be able to make?

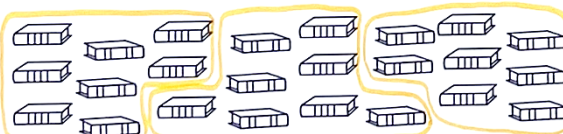
Draw a circle around 5 cookies to show one bag. Keep drawing circles until you can no longer make any more bags.



20 cookies are put into bags with 5 cookies each = 4 bags
 $20 \div 5 = 4$

2. Brady put 24 books into stacks. Each stack had 8 books. How many stacks did he make?

Make groups of 8 books until you cannot make any more groups.



24 books put into stacks of 8 books = 3 stacks
 $24 \div 8 = 3$

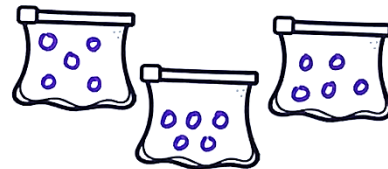
3.4H

Division as Fair Shares 22

Division is separating a total amount into equal groups. We can divide to find the number in each group.

1. Josh has 15 grapes to put into 3 bags. He will put the same number in each bag. How many grapes will go in each bag?

Cross out each grape when you redraw it in a bag.



15 grapes shared evenly between 3 bags = 5 grapes per bag
 $15 \div 3 = 5$

2. Ariana has 12 heart stickers to decorate 4 jars. She will put the same number of stickers on each jar. How many stickers go on each jar?

Cross out each sticker when you redraw it in a jar.



12 stickers shared evenly between 4 jars = 3 stickers per jar
 $12 \div 4 = 3$

28 Notebook Pages to Introduce Multiplication & Division Concepts

3.5C **Multiplication as a Comparison** 11

Multiplication can be used to show a _____ between two amounts.

There are two donuts on a plate.



2

There are 3 times as many donuts in the box.



$3 \times 2 = 6$

Draw a picture to illustrate.

Ivy checked out 4 books from the library.

twice means _____ times

Mrs. Davis checked out twice as many books from the library.

Complete the comparison statement for the pictures.

Jax spent _____



He put _____ that amount in his savings account.

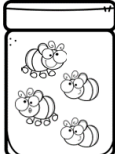
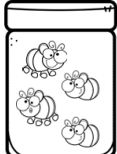
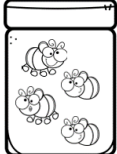


©Melissa Johnson www.MarvellMath.com

3.4E **Multiplication as Equal Groups**

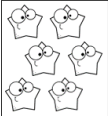
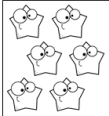
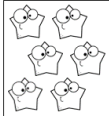
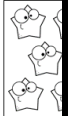
When we are making _____ to find the total, we can multiply.

1. Janeesa has 3 jars. Each jar has 4 fireflies inside. How many fireflies does Janeesa have in all?

_____ groups of _____ is a total of _____
_____ $\times$ _____ = _____

2. Brady has 4 pages of stickers. There are 6 stickers on each page. How many stickers does Brady have altogether?

_____ groups of _____ is a total of _____
_____ $\times$ _____ = _____

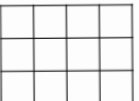
Students Create & Understand the Multiplication Chart

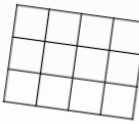
(only page with cutting and gluing)



Essential Vocabulary

Section Included

ESSENTIAL MULTIPLICATION & DIVISION VOCABULARY		
Term	Picture or Example	Definition
Multiplication	8×45 8 groups of 45	Making equal groups to find the total
Repeated Addition	4×2 is the same as $2 + 2 + 2 + 2$	You can represent 4 groups of 2 by adding 2 four times.
Skip Counting	Skip count by 3's 3, 6, 9, 12, 15	Skip counting is counting in groups. It can represent multiplication.
Array	 4×4 4 rows of 4	A rectangular model of a multiplication problem
Area Model		Models multiplication by showing the two factors as the length and width of a

ESSENTIAL MULTIPLICATION & DIVISION VOCABULARY		
Term	Picture or Example	
Multiplication		
Repeated Addition		
Skip Counting		
Array		
Area Model		

Resource **Includes**



33 Student Pages



Pages to introduce Multiplication and Division



Teacher KEY



Essential Vocabulary Section



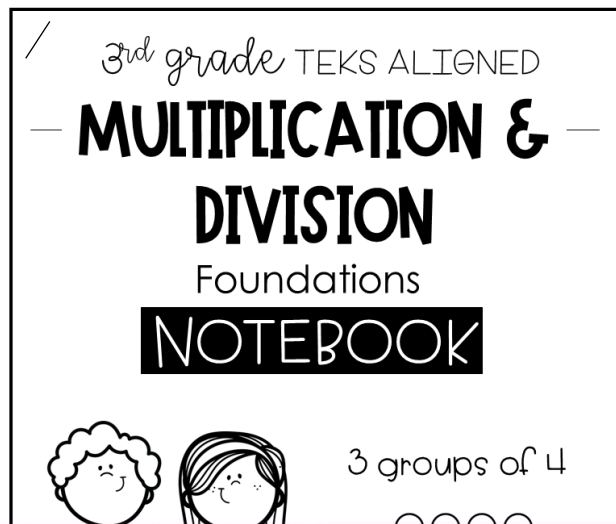
Built for the TEKS

MULTIPLICATION & DIVISION *table of contents*

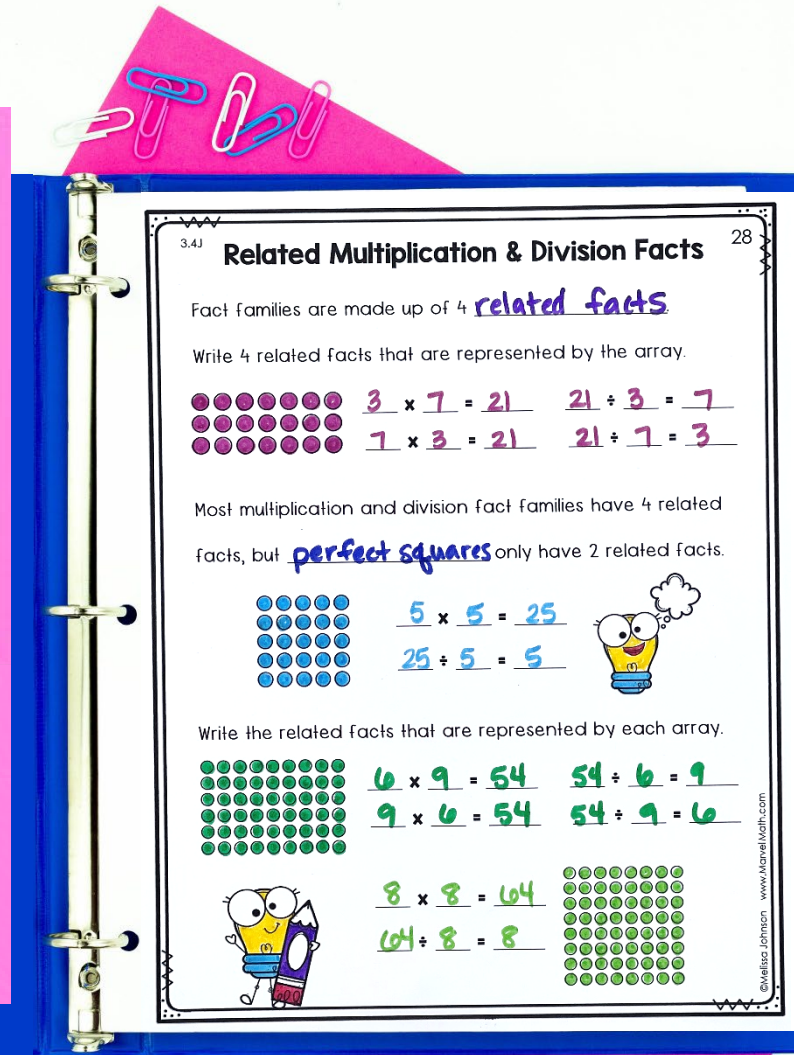
TOPIC	TEKS	Page(s)
	All	1-3
Multiplication and Division Vocabulary	3.4D, 3.4E	4
Multiplication as Equal Groups	3.4E	5
Multiplication as Repeated Addition	3.4E	6
Multiplication as Skip Counting or Jumps on a Number Line	3.4D, 3.4E	7
Arrays	3.4E, 3.6C	8
Area Model	3.4D, 3.4E	9
Represent Multiplication	3.4D, 3.4E	10
Commutative Property	3.5C	11
Multiplication as a Comparison	3.4E, 3.4F	12
The Multiplication Chart	3.4E, 3.4F	13
The Commutative Property on the Multiplication Chart	3.4F, 3.4I	14 - 21
Multiples of 2 - 9	3.4H	22
Division as Fair Shares	3.4H	23
Division Vocabulary	3.4H	24
Division as Taking Out Equal Groups	3.4H	25
Division as Repeated Subtraction or Backwards Jumps on a Number Line	3.4J	26
Relating Multiplication & Division	3.4J	27
Multiplication & Division Stories	3.4J	28
Related Multiplication & Division Facts	3.4J	29
Multiplication to Solve Division	3.5D	30

No Cutting or Gluing Required

- Make stapled packets
- 3-hole punch to use in a binder
- Make the most of class time



MARVELMath



Or Glue Entire Page in Notebook

3.5D

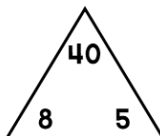
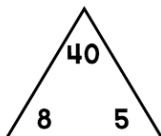
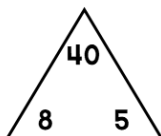
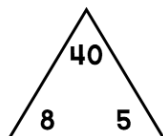
Finding Unknowns in Equations

30

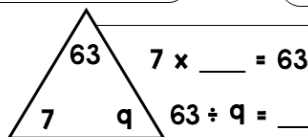
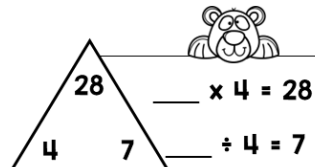
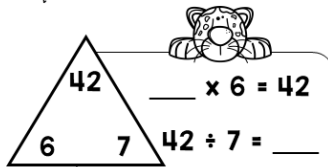
We can think about _____ to help find unknowns in multiplication and division problems.

_____ can help you study fact families and remember related facts. They show 3 numbers that are related through _____ and _____.

Show how to find the four related facts using the numbers 40, 8 and 5 on these triangle flash cards.



Use the triangle flashcards to help you find the unknown in each equation.



©Melissa Johnson www.MarvellMath.com

Multiplication Topics Covered

- Both types of Multiplication: Equal Groups & Comparison
- Repeated Addition
- Skip Counting
- Arrays & Area Models
- Jumps on a Number Line
- How to Build and Use a Multiplication Chart
- Commutative Property
- One Step Word Problems
- Finding Unknowns: $? \times 3 = 21$

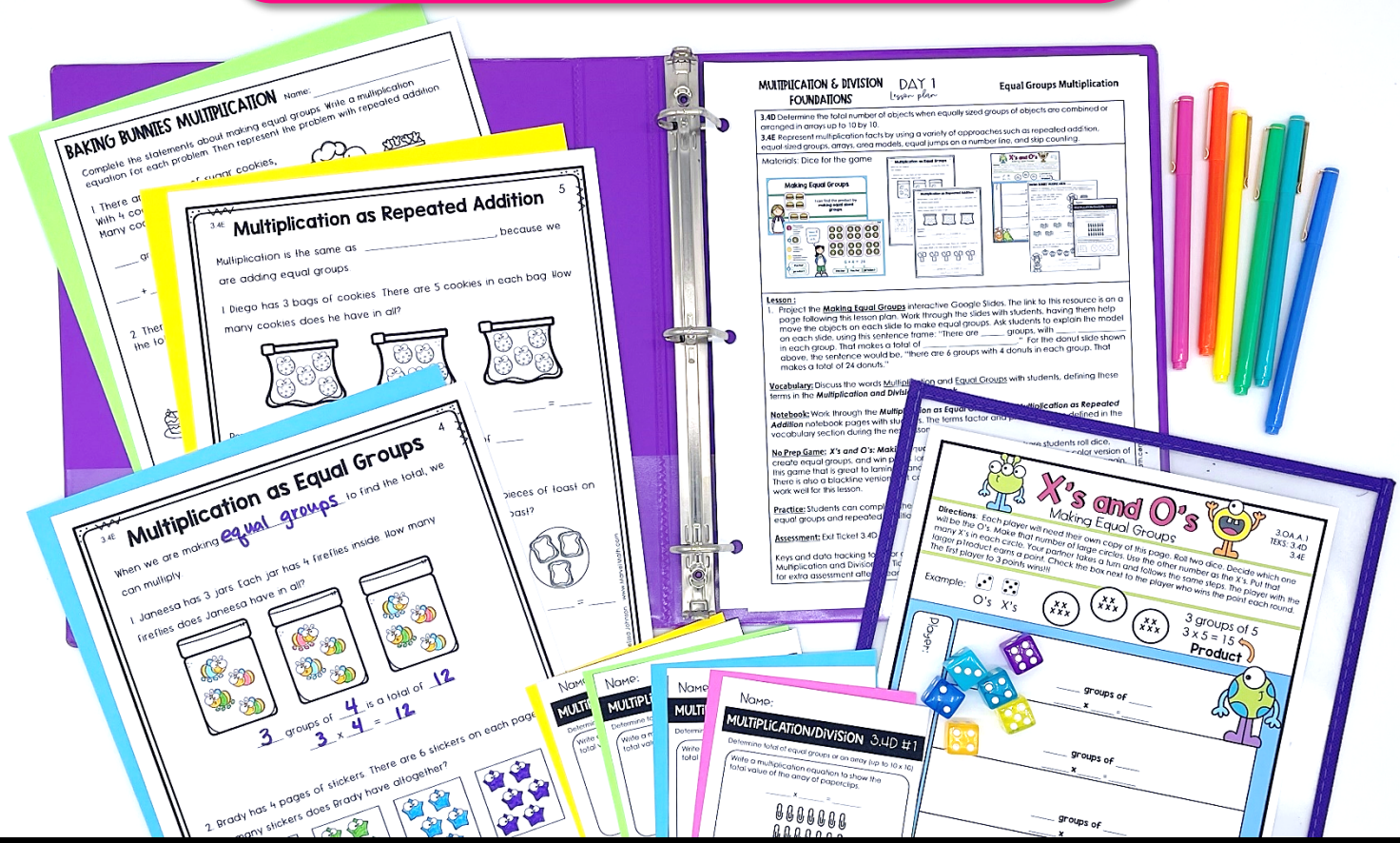
Division Topics Covered

- **Both types of Division:
Fair Shares & Taking Out Equal
Groups**
- **Relating Multiplication &
Division**
- **Repeated Subtraction**
- **Backwards Jumps on a
Number Line**
- **Finding Unknowns in Equations**
- **One Step Word Problems**
- **Determining Even & Odd
Numbers using Divisibility by 2**

This resource is included in this Time & Money Saving Bundle

Click here

3rd Grade TEKS Multiplication & Division BUNDLE



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.

