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Pg. 24–25	Lesson 7–Using Multiplication to Divide		-	-
Pg. 26–27	Lesson 8-Using Place Value to Divide		Pg. 105-106	Div
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Pg. 36-39	Lesson II-More Area Models	$\left \right $	Pg. III	Sp
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Pg. 64-65	Lesson 18-Partial Quotient		Pg. 120-121	4-1
Pg. 66-68	Lesson 19-Mixing Strategies		Pg. 122-123	In
Pg. 69-74	Lesson 20-Division Garden		Pg. 124	Th
Pg. 75-76	Lesson 21-Thinking About Efficiency		-	\vdash
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Pg. 79-81	Lesson 23–4 Digit Partial Quotient		Pg. 127-130	Div
Pg. 82–87	Lesson 24-Interpreting Remainders		Pg. 131–138	Div
Pg. 88-89	Lesson 25-Party Planning			

⁵ g. 91-92	Representing Multiplication and Division
Pg. 93-94	Division With Remainders
Pg. 95-96	Interpreting Remainders
Pg. 97-98	More Remainders
Pg. 99-100	Dividing by Multi-pes of Ten
Pg. 101–102	More Multiples of Ten
Pg. 103–104	Find the Missing Number
Pg. 105-106	Dividing With Area Models
Pg. 107-108	Partial Quotient Practice
Pg. 109–110	More Division With Partial Quotient
Pg. III	Spin and Divide (3-digi†)
Pg. 112	Area Models Practice I
Pg. II3	Division With Partial Quotient
Pg. 114-115	3-Digit Division
Pg. 116	Spin a Quotient
Pg. 117	Spin and Divide (4-digi†)
Pg. 118-119	4-Digit Area Models
Pg. 120-121	4-Digit With Partial Quotient
Pg. 122-123	Interpreting Remainders Sort
Pg. 124	The Remainder Game 2
Pg. 125	Mixing Strategies
Pg. 127–130	Division Bump
Pg. 131–138	Division Scoot

O.

Detailed Lesson Plans

Lesson I: Relating Multiplication and Division

Standard: 4.NBT.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between

Standard

operations, and/or the relationship betweer nd division. Illustrate and explain the using equations, rectangular arrays, and/or

Materials:

- Counters (or any other type of manipulative that can be easily counted)
- Relating Multiplication and Division recording sheet

Materials

Mini-lesson

Today we are beginning a brand new u Mini Lesson but division! I realize that you learned a lot about division as third groves, and mis year we will race what you already know and go a little farther. By the end of this unit, you'll be able to divide four-digit numbers by I-digit numbers! We're going to start slow and take things step-by-step. First, can anyone tell me what division is? Give students time to respond. Make sure students understand that division is taking a total number and partitioning it into equal groups.

Show students the Relating Multiplication and Division recording sheet (do not distribute yet) and distribute counters. Explain that you are going to model the activity using a dividend of 36, which means

you will use 36 counters. Allow student with models, division sentences, and mu

Work Time

odel how to fill in the various rows

Work Time

Allow students to work in pairs or groups. They should complete the same steps in the mini lesson using a dividend of 48. Students will be able to group the number 10 different ways (you may need to remind students that they can use the commutative property). Students will draw a picture of each grouping method, as well as write a division equation and a multiplication equation with a missing number. On the

back of the paper, students should exp Closing

Closing

on are related.

Select a few students to share their tables with the class. Use this time to ask questions such as: How did you know you could break the counters into 6 groups? Why didn't you have 5 groups? Allow students to share how their observations are alike and different with each other.

Intervention of 24	Extension • Replace the dividend of Extension		
Essential Questions How can I determine equal groups? Ecooptial tion and division 	Formative Assessment Observe students as they work. Students should be able to explain hov 		
Essential Questions	 be able to explain hove solve division problem Students should see operations. 		

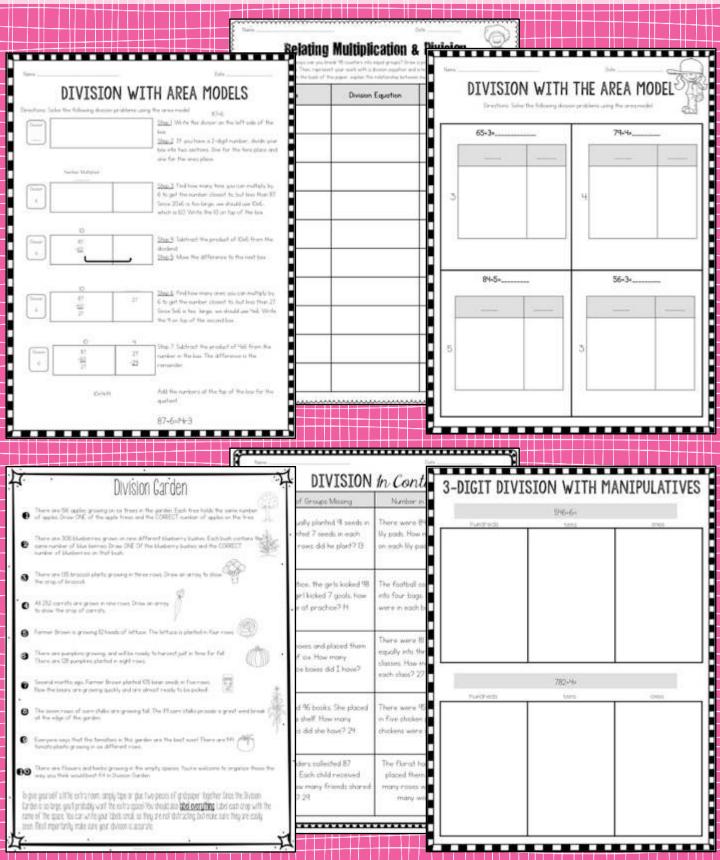
Teacher Notes

- I sincerely hope that you and your students enjoy this division unit! This unit has been designed around the
- Common Core Standards, but you should find the content useful in any fourth grade classroom. In this unit
- you will find performance tasks to conceptually teach new skills through the workshop model, as well as work station activities and games for review. Please note that this version includes an extra week for relating multiplication and division models. This extra week does not include skills practice pages.

Unit at a Glance

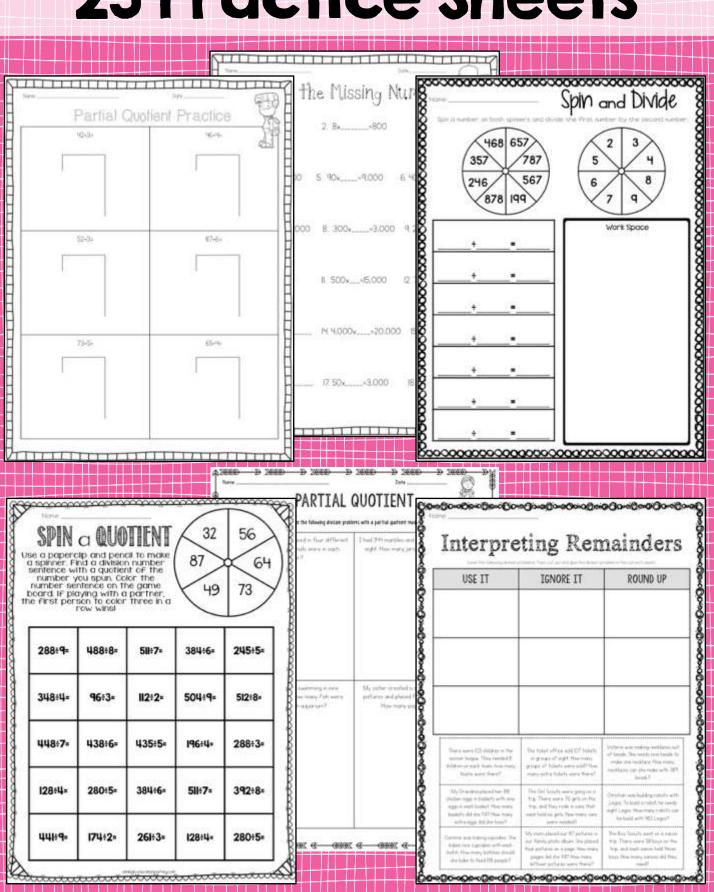
vision	Lesson I	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Introducing Division	Connecting Multiplication and Division	Dividing Starfish	Interpreting Remainders	Remainder Game	Divide by Multiples of Ten
uc	Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10
Relating Division	Place Value and Division	Using Multiplication to Divide	Using Place Value to Divide	Relating the Area Model	Using an Area Model
	Lesson II	Lesson 12	Lesson 13	Lesson H	Lesson 15
Dividing 2 Digit Numbers	More Area Models	Even More Area Models	Spinning Area Models	Division With Partial Quotient	Division in Context
+	Lesson l6	Lesson 17	Lesson 18	Lesson 19	Lesson 20
Dividing 3 Digit Numbers	3-Digit Division With Manipulatives	Transitioning to Partial Quotient	3 Digit Partial Quotient	Mixing Strategies	Division Garden
÷	Lesson 21	Lesson 22	Lesson 23	Lesson 24	Lesson 25
Dividing 4-Digit Numbers	Thinking About Efficiency	Art Day	4 Digit Partial Quotient	Interpreting Remainders	Party Planning

25 Conceptual Lessons



Name Using Area N Number in Each Row (factor)	Date Iodels Number in Each Row (factor)	
Number of Rows		
What multiplication equation does the array above re What are the partial products?		
		Date
What multiplication equation does the array above represent? Factors tell you the number of and the amount _ What are the factors in the array above? The product tells you What is the produc	Are You Kidding Me?	More Area Models!
The dividend tells you the What is the divisor tells you how many What is the divisor tells you how many What is the quotient tells how many What is the divisor tells how many What is tell how many What		
What division equation does the array above represent?	The quotient tells how many	What is the quotient in the array?
	5	50 6
	What is the total? (dividend) How many ground of the many are in each group? (quotient) How many are in each group? (quotient) What division equation does the area model represent	
	3	60 8
	What is the total? (dividend) How many ground How many are in each group? (quotient) What division equation does the area model represent	

25 Practice Sheets



2 Games

