P.Cert.Gr.5 My Math Unit 3: Dividing whole numbers

Content Area:

Math

Course(s): Time Period: Length:

Status:

November 4-6 Weeks Obsolete

Unit Overview

This unit explores strategies for dividing whole numbers.

Enduring Understandings

It is important to remember and apply certain strategies when dividing whole numbers.

Essential Questions

What strategies can be used to divide whole numbers?

Instructional Strategies & Learning Activities

Chapter 3

Pacing Guide Suggested Pacing

Instruction 14 days Review/Assessment 2 days Total* 16 days

Lesson
Lesson 1 pp. 157-162
Relate Division to
Multiplication

Objective

and multiplication are related. • counters

Understand how division

Material & Manipulatives

Vocabulary fact family unknown variable

5.1

^{*}Includes additional time for remediation and differentiation.

				M
				M 5.1
1 2 10 10				M
Lesson 2 pp. 163-168 Hands On: Division Models	Explore division using models.	• base-ten blocks (tens and ones)	dividend	M 5.1
Lesson 3 pp. 169-174 Two-Digit Dividends	Carry out division with and without remainders.	 sticky notes fruit snacks base-ten blocks	divisor quotient remainder	M M
Two Digit Dividends	Use basic facts and	ouse ten sisens		5.1
Lesson 4 pp. 175-180 Division Patterns Check My Progress	patterns to divide multiples of 10, 100, and 1,000 mentally.			M
		• individual dry-erase boards		M 5.3
	Estimate quotients by			5.1
Lesson 5 pp. 183-188 Estimate Quotients	using rounding and compatible numbers.			M M
	•			5.1
Lesson 6 pp. 189-194 Hands On: Division Models		a haan tau blanks		M
with Greater Numbers	models.	base-ten blocks		M 5.1
Lesson 7 pp. 195-200 Hands On: Distributive Property and Partial	Divide using the Distributive Property and partial	 base-ten blocks 		M
Quotients Check My Progress	quotients.	• bar diagrams	partial quotients	M
· -				5.1
Lesson 8 pp. 201-206 Divide Three- and Four-	Divide up to a four-digit number by a one-digit			M
Digit Dividends	number.	• quarter-inch grid paper		M 5.1
	Understand how to			M
Lesson 9 pp. 209-214 Place the First Digit	place the first digit	• base-ten blocks		M
Trace the First Digit	in a quotient.	v dasc-tell blocks		5.1
Laggar 10 215 220	Solve division problems			M
Lesson 10 pp. 215-220 Quotients with Zeros	that result in quotients that have zeros.	• base-ten blocks		M
Lesson 11 pp. 221-226 Hands On: Use Models	Explore how to			5.1
to Interpret the Remainder	interpret the remainder in a division problem.	connecting cubespaper plates		M

		M 5.1
Lesson 12 pp. 227-232	Interpret the remainder	M
Interpret the Remainder	in a division problem.	M
Lesson 13 pp. 233-238		5.1
Problem-Solving		
Investigation: Determine	Identify extra information	M
Extra or Missing	or missing information	
Information	needed to solve a problem.	M
My Review and Reflect		

Integration of 21st Century Themes and Career ExplorationStudents will work in cooperative groups to solve problems. Students will interact with the Smartboard to enhance the learning process.

CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.	
CRP.K-12.CRP2	Apply appropriate academic and technical skills.	
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.	
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.	
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.	
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.	
CRP.K-12.CRP11	Use technology to enhance productivity.	
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.	

Technology IntegrationStudents will intereact with the Smartboard to enhance the learning process. Students will use various webbased, interactive sites to expand the content, as needed.

Interdisciplinary Connections

Students will read and write throughout the entire unit. They will also use art supplies to interpret remainders.

LA.RL.5.4	Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.
LA.RI.5.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.
LA.RI.5.10	By the end of year, read and comprehend literary nonfiction at grade level text-complexity or above, with scaffolding as needed.

LA.RF.5.4.A

Read grade-level text with purpose and understanding.

Differentiation

Differentiation:

- Use of different resources to match the readiness levels of the students when working on the activities in the daily lessons.
- Respond to students' needs for reteaching, reinforcing, and extending learning.
- Use of a variety of instructional strategies to engage students in learning.
- Question prompts to promote student engagement
- Small group settings as needed for specific skills
- Use discussion to promote collaboration among students
- Integrate technology to offer varied learning experiences
- Adjust instruction based on formative tasks/assessments

Modifications & Accommodations

Modifications & Accommodations:

- In class support and scaffolding based on the individual IEP's
- Independent levels on My Math and Splash Math

Benchmark Assessments

Students will complete AimsWeb testing.

Formative Assessments

Formative Assessments:

- Task completion
- Answers and discussions
- Student maps
- Bingo
- Ouizzes
- Participation

Summative Assessments

Summative Assessments:

- Quizzes
- Final Test

Instructional Materials

My Math Textbook series grade 5

See materials in lessons above

Standards

MA.5.NBT.A.2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
MA.5.NBT.B.5	Fluently multiply multi-digit whole numbers using the standard algorithm.
MA.5.NBT.B.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.