



Lesson Exemplar for Mathematics

Quarter 2 Lesson

COVERNMENT PROPERTY E

NOY

IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 2: Lesson 2 (Week 2) SY 2024-2025

This material is intended exclusively for the use of teachers in the implementation of the MATATAG K to 10 Curriculum during the School Year 2024-2025. It aims to assist in delivering the curriculum content, standards, and lesson competencies. Any unauthorized reproduction, distribution, modification, or utilization of this material beyond the designated scope is strictly prohibited and may result in appropriate legal actions and disciplinary measures.

Borrowed content included in this material are owned by their respective copyright holders. Every effort has been made to locate and obtain permission to use these materials from their respective copyright owners. The publisher and development team do not represent nor claim ownership over them.

Development Team				
 Writers: Lorelei B. Santelices (Ateneo de Naga University) Ma. Jeanette O. Naval, Ph.D. (Ateneo de Naga University) 				
 Validators: Aurora B. Gonzales, Ph.D. (Philippine Normal University – Manila) Lalaine Ann F. Manuel, Ph.D. (Central Luzon State University) 				
Management Team				
Philippine Normal University Research Institute for Teacher Quality SiMERR National Research Centre				

Every care has been taken to ensure the accuracy of the information provided in this material. For inquiries or feedback, please write or call the Office of the Director of the Bureau of Learning Resources via telephone numbers (02) 8634-1072 and 8631-6922 or by email at blr.od@deped.gov.ph.

MATHEMATICS / QUARTER 2 / GRADE 4

I. CUI	I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES				
А.	Content Standards	 The learners should have knowledge and understanding of Multiplication of whole numbers with products up to 1 000 000, division of up to 4-digit numbers by up to 2-digit numbers, and the MDAS rules. 			
В.	Performance Standards	 By the end of the quarter, the learners are able to perform multiplication of whole numbers with products up to 1 000 000. perform division of up to 4-digit numbers by up to 2-digit numbers. perform different operations by applying the MDAS rules. 			
C.	Learning Competencies and Objectives	 Solve multi-step problems involving one or more of the four operations with results of calculations up to 1,000,000, including problems involving money. Divide two numbers with and without regrouping 3- to 4-digit numbers by 1-digit numbers 			
D.	Content	A. Problem Solving on MultiplicationB. Dividing Whole Numbers			
E.	Integration	Principles of Values Education/Christian Living Education, Concepts in Socio-Economic, Science, and Music			

II. LEARNING RESOURCES

iStockphoto LP. (2023). Money Saving stock illustration [Image]. iStock. <u>https://encryptedtbn0.gstatic.com/images?q=tbn:ANd9GcQWfIM45SIDszRBuFKXEULd96b-mtKsInRrRoc769Y61Q&s</u> Math Sanga by NUMPEROCK (2015, Santamber 17). Long Division Sang L 1, Divisional - 2nd Crada & 4th Crada [Vida

Math Songs by NUMBEROCK. (2015, September 17). Long Division Song | 1-DIgit Divisors | 3rd Grade & 4th Grade [Video]. YouTube. https://www.youtube.com/watch?v=VvQelzRQe7k

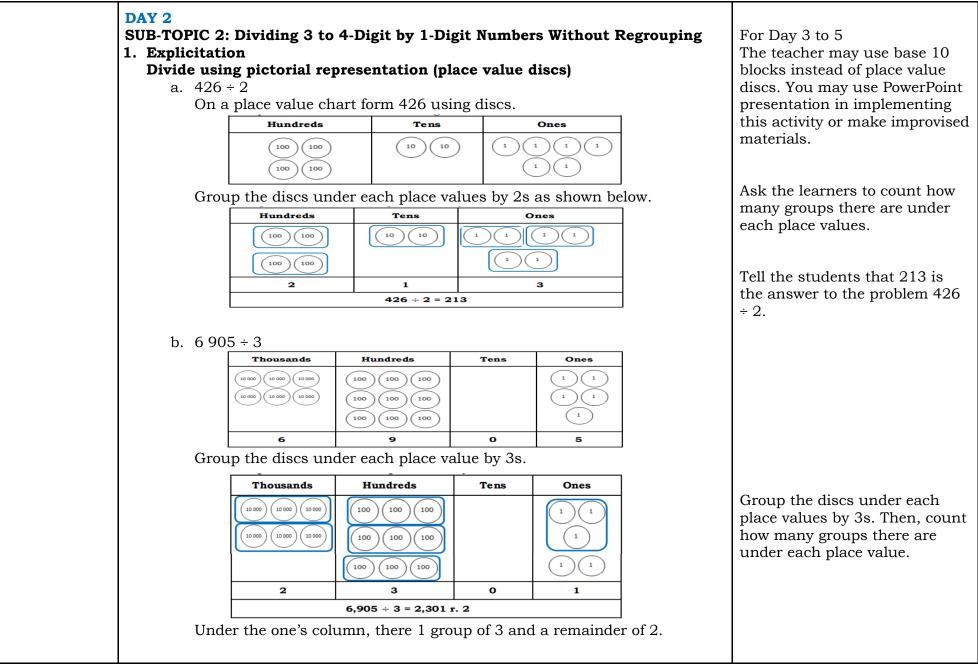
TheAnimatedClassroom. (2011, March 2). The Steps to Long Division [Video]. YouTube. https://www.youtube.com/watch?v=0uZiqk_ZdcA

Other Learning Resources needed for this lesson: Multiplication Flash Cards, Division Flash Cards, and Manipulatives (place value discs)

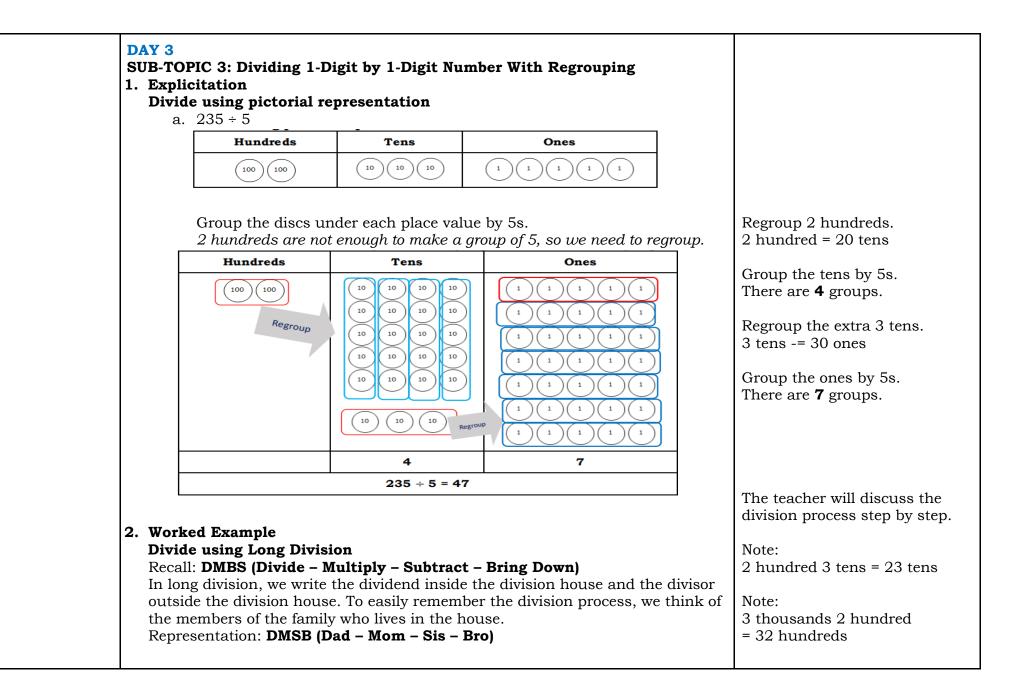
III. TEACHING AND LEA	NOTES TO TEACHERS	
A. Activating Prior Knowledge	DAY 1 1. Short Review • On Multiplication – use multiplication flash cards to review Multiplication facts. • On Division – use division flash cards to review Division facts. What do you call a natural calamity brought by strong winds with heavy rains that may cause flood, landslide, and destruction of structures? Write on the line the letter corresponding to the quotient to decode the word. 1) $25 \div 5 =$ N 2) $9 \div 3 =$ T 3) $20 \div 2 =$ O 4) $16 \div 4 =$ H 5) $7 \div 1 =$ Y 6) $18 \div 9 =$ P 7) $4 \div 4 =$ O	Review for Day 1 and Day 2 Review for Day 3 to 5, the teacher will elaborate on the students' answers.
	Have you ever experienced this kind of calamity? 2. Feedback (Optional)	The teacher will elaborate on the students' answers.
B. Establishing Lesson Purpose	 1. Lesson Purpose Problem Opener: Sarah saves a portion of her daily allowance. She saves 15 pesos every day for Christmas. 1) How much will she save in 40 days? 2) How will you get the total savings? 3) From the responses, which will give you the answer easily? Why? Today we will be solving word problems on multiplication.	Possible answers: a) Repeated addition b) Skip counting c) Multiplication
	 2. Unlocking Content Vocabulary A. Let us recall the steps in problem solving: U P A C or Think – Plan – Solve – Look Back 1. Understand the problem (Think). Identify what are the given and what is asked. 	For Day 1 and 2 The teacher may use other ways to present the steps in problem solving. Example:

	 Devise a Plan (Plan). Choose an appropriate strategy in solving the problem. Answer or Carry out the plan (Solve). After identifying a strategy to use, solve, and answer the problem Check (Look Back). Have time to reflect and look back on what you have done. What worked and what did not work? 	GAPESA G – given A – asked P – process E – equation S – solve A – answer
	What words imply multiplication? (possible answers: "total; double/triple; altogether; in all") B. Recall the parts of a division sentence. division equal sign sign \uparrow \uparrow $30 \div 6 = 5 \rightarrow \text{quotient}$ \swarrow \textcircled{s} dividend divisor $48 \div 5 = 9 \text{ r. } 3 \rightarrow \text{remainder}$	For Day 3 to 5 The teacher will explain each word. Provide other examples if there is difficulty identifying the parts.
C. Developing and Deepening Understanding	 DAY 1 SUB-TOPIC 1: Problem Solving on Multiplication Explicitation Let us solve the following multiplication story. After a typhoon, 1 200 people were brought to an evacuation center. The local government provided 3 meals a day for each evacuee for 12 days. How any meals did the local government provided in all? Solution: Step 1: (Think). What are given in the problem? a. How many meals a day per person did the government prepare? c. For how many days? What is asked in the problem? a. How will you solve the problem? b. What operations will you carry out? 	For Day 1 and 2 The teacher may ask more questions or rephrase the questions. Answer to the questions: a. 1 200 b. 3 meals per day c. 12 days

 c. What strategy will you use? d. Is there a hidden question? If yes, what is the hidden question? e. What is the number sentence? Step 3: (Solve). Carry out the operation(s). Step 4: (Look Back). Check your answer if it is correct. Have time to reflect and look back on what you have done. What worked and what did not work? 	Number sentence: (1 200 × 3) × 12 = n (number of meals)
 2. Worked Example Let us solve another problem. Example: Adelle bought 4 sets of uniforms. She paid 640 pesos for each set. She gave 3 000 pesos to the cashier. How much change did she get? Step 1: (Think). Given: 4 sets of uniform; 640 pesos each set; 3 000 pesos payment Asked: How much change did she get? Step 2: (Plan). Hidden Question: What is the total cost of the uniforms? Number sentence: 3 000 - (640 × 4) = n Step 3: (Solve). 640 × 4 = 2 560 3 000 - 2 560 = 440 Answer: She got a change of 440 pesos. Step 4: (Look Back). Review your answer. Is it correct? 	
 3. Lesson Activity Solve on you own. Follow the steps in problem solving. How many legs are there in 6 cows and 4 chickens? In a cheer dance competition, the required number of cheer dancers is 25 and the required number of spotters is 8. There were 12 participating teams. Altogether, how many participants joined the competition? A florist buys 20 bundles of roses to be used for wedding decorations. Each bundle has 48 red and white roses. In each bundle there are 30 red roses and the rest are white. How many white roses are there in all? A two-day musical event sold 1 000 tickets on the first day and 935 on the second day. If each ticket costs 700 pesos, how much does the musical event earn from the ticket sales? 	Answer Worksheet No. 1



Divide using Long Division Recall: DMBS (Divide – Multiply – S In long division, we write the dividen outside the division house. To easily the members of the family who lives	id inside the division house and the divisor remember the division process, we think of in the house.	The teacher may ask the pupils to think of their own representation of the division process (DMSB)
1) $426 \div 2$	2) $6905 \div 3$	The teacher will discuss the
 Divide 4 hundreds by 2. 2 x 2 hundreds = 4 hundreds Subtract. Bring down 2 tens. Divide 2 tens by 2. 2 x 1 ten = 2 tens Subtract. 	$\begin{array}{c} 2\\ 3 & \overline{6905}\\ -6\\ 0 & 3 \ge 2 \text{ thousands by 3.}\\ \hline \\ -6\\ 0 & \text{Subtract.} \end{array}$ $\begin{array}{c} 23\\ 3 & \overline{6905}\\ \hline \\ -6\\ 09\\ 0 & \text{Bring down 9 hundreds. Divide 9 hundreds by 3.}\\ \hline \\ -9\\ 0 & \text{Subtract.} \end{array}$ $\begin{array}{c} 230\\ 3 & \overline{6905}\\ \hline \\ -6\\ 09\\ \hline \\ 0 & \text{Subtract.} \end{array}$ $\begin{array}{c} 230\\ 3 & \overline{6905}\\ \hline \\ -6\\ 09\\ \hline \\ -9\\ \hline \\ 00\\ \hline \\ -0\\ \end{array}$ $\begin{array}{c} Bring down 0 \text{ tens. Divide 0 tens by 3.}\\ 3 & x 0 \text{ tens = 0 tens} \end{array}$	division process step by step.
 Bring down 6 ones. Divide 6 ones by 3. 2 x 3 ones = 6 ones Subtract. Lesson Activity Find the quotient of the following nu 1) 664 ÷ 6 (pictorial) 2) 8 480 ÷ 4 (long division) 3) 704 ÷ 7 (long division) 	$\frac{2301}{3 6905}$ $\frac{-6}{09}$ $\frac{-9}{00}$ $\frac{-0}{05}$ Bring down 5 ones. Divide 5 ones by 3. $\frac{-3}{2}$ Subtract.	
	In long division, we write the divident outside the division house. To easily the members of the family who lives Representation: DMSB (Dad - Mom 1) $426 \div 2$ 2 2 Divide 4 hundreds by 2. 2 x 2 hundreds = 4 hundreds Subtract. 2 2 2 2 Bring down 2 tens. Divide 2 tens by 2. 2 x 1 ten = 2 tens 0 Subtract. 2 3 6 0 5 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7	Divide using Long Division Recall: DMBS (Divide – Multiply – Subtract – Bring Down) In long division, we write the dividend inside the division house and the divisor outside the division house. To easily remember the division process, we think of the members of the family who lives in the house. Representation: DMSB (Dad – Mom – Sis – Bro) 1) 426 ± 2 2) $6 905 \pm 3$ 2 2 2×2 hundreds by 2. 2 2×2 hundreds = 4 hundreds Subtract. 2 2 2×1 ten = 2 tens 3 $\frac{36905}{-6}$ 5 $\frac{-6}{-9}$ 2 2×1 ten = 2 tens 3 $\frac{36905}{-6}$ 5 $\frac{-9}{-9}$ 2 2×3 ones = 6 ones 3 $\frac{2}{-9}$ 3 $\times 0$ tens = 0 hundreds. Divide 9 hundreds by 3. 3 $\times 0$ tens = 9 hundreds. 3 $\times 0$ tens = 9 hundreds 5 $\frac{-9}{-9}$ 3 $\times 0$ tens = 0 tens 5 $\frac{-9}{-9}$ 3 $\times 0$ tens = 0 tens 5 $\frac{-9}{-9}$ 5 $\frac{-9}{-9}$ 6 $\frac{-9}{-9}$ 5 $\frac{-9}{-9}$ 6 $\frac{-9}{-9}$ 5



	errors and explain each type of erro	umbers using the suggested method. Use	Watch the video on long division without remainder: https://www.youtube.com/wat ch? v=0uZiqk_ZdcA Watch the video on long division with remainder: https://www.youtube.com/wat ch? v=VvQelzRQe7k Answer Worksheet No. 3
C. Making Generalizations	 DAY 4 1. Learners' Takeaways Which strategy do you find easy to In what situations can you use div What values did you learn from the 	Provide time for the students to write or discuss their answers to the following questions.	

Perform the task as presented in the illustration. 3 1	2.	Reflection on Learning		Reflect: 3-2-1
2		Perform the task as presented in the illustration.	3	Things I learned
1 Question I have			2	Things I found interesting
			1	Question I have

IV. EVALUATING LEAR	IV. EVALUATING LEARNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION					
A. Evaluating Learning	 DAY 5 1. Formative Assessment A. Solve the problem be Chad buys a sells 15 computers, 1 B. Find the quotient by 1) 632 ÷ 3 2) 4 082 ÷ 2 C. Find the quotient by 1) 5 824 ÷ 8 2) 467 ÷ 5 2. Homework (Optional) 	Teachers may encourage learners to have a quiz notebook to monitor learners' academic progress. The quiz notebook may also serve as homework notebook.				
B. Teacher's Remarks	Note observations on any of the following areas:	Effective Practices	Problems Encountered	The teacher may take note of some observations related to		
	strategies explored			the effective practices and problems encountered after utilizing the different strategies,		
	materials used			materials used, learner engagement, and other related stuff.		
	learner engagement/ interaction			Teachers may also suggest ways to improve the different		
	others	0		activities explored/lesson exemplar.		

C. Teacher's Reflection	 Reflection guide or prompt can be on: <u>principles behind the teaching</u> What principles and beliefs informed my lesson? Why did I teach the lesson the way I did? <u>students</u> What roles did my students play in my lesson? What did my students learn? How did they learn? <u>ways forward</u> What could I have done differently? What can I explore in the next lesson? 	Teacher's reflection in every lesson conducted/facilitated is essential and necessary to improve practice. You may also consider this as an input for the LAC/Collab sessions.
----------------------------	---	---