



Lesson Exemplar for Mathematics

Quarter 2 Lesson

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IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 2: Lesson 3 (Week 3) SY 2024-2025

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MATHEMATICS / QUARTER 2 / GRADE 4

| I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES | | | |
|---|---|--|--|
| A. 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. | | |
| B. 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 | Divide two numbers with and without regrouping 2- to 3-digit numbers by 2-digit numbers Estimate the quotient when dividing 3- to 4-digit dividends by 1- to 2-digit divisors, by first estimating the dividends and divisors using multiples of 10. 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. | | |
| D. Content | A. Multiplying Whole NumbersB. Estimating ProductsC. Problem Solving on Division | | |
| E. Integration | Principles of Values Education/Christian Living Education, Socio Economics, Conservation of Resources | | |

II. LEARNING RESOURCES

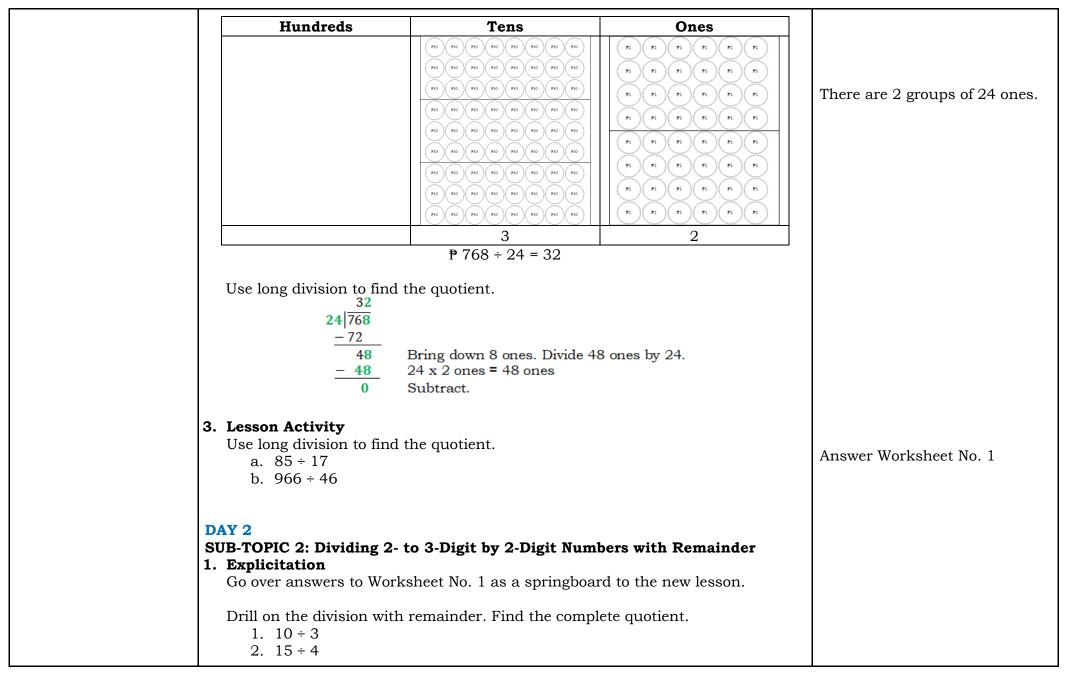
Nivera, G.C. & Lapinid, M.C. (2014). Math for All Grade 4. Salesiana Books by Don Bosco Press, Inc. stickerandstaples.blogspot.com. (2012, March 12). Rounding Poem Freebies [Illustration]. Pinterest. <u>https://www.pinterest.ph/pin/458100593337798395/</u> teacherfiles.com.(2014, December 21). Place Value Clip Art [Illustration]. Clip Art. <u>https://www.teacheifiles.com/clip_ait_place_value.htm</u>

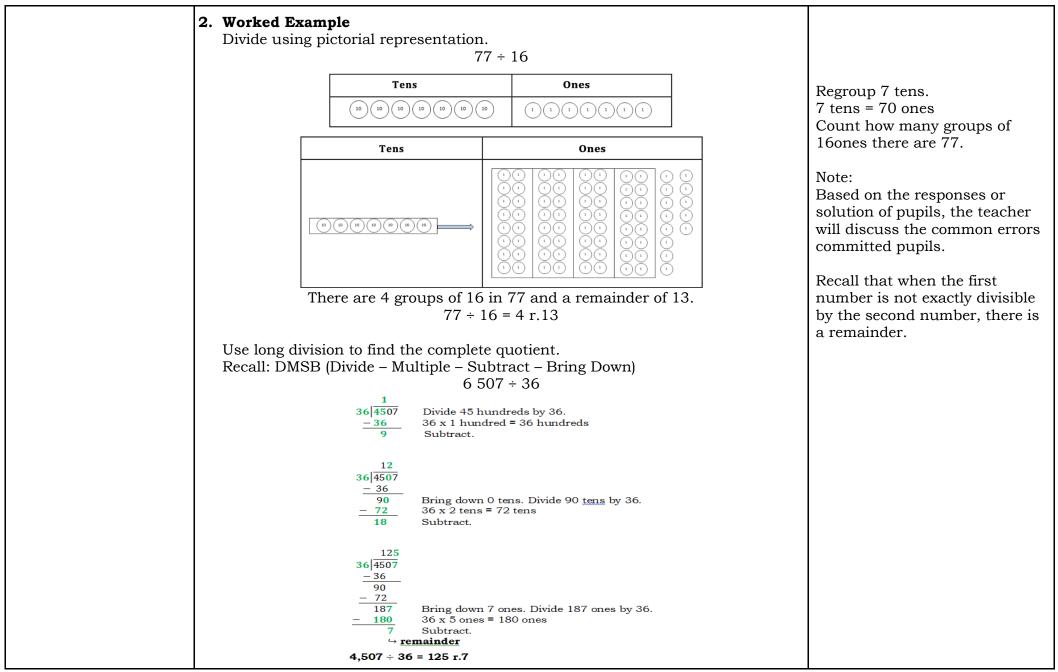
Other Learning Resources needed for this lesson: Division flash cards and manipulative

| II. TEACHING AND LEA | NOTES TO TEACHERS | |
|-----------------------------------|--|---|
| A. Activating Prior Knowledge | DAY 1 1. Short Review For Division: a. Use Division flash cards to review division facts. b. Play the game, "The Boat is Sinking." c. Recall the Division Process For Estimating Quotient: Recite the Rounding Rule. For Estimating Quotient: Look right next door. 4 or less just ignore. 5 or more, add 1 more. For Problem Solving on Division: Recall the problem-solving steps: Think – Plan – Solve – Look Back | Review for Day 1 and 2 (Division Mechanics for the game "The Boat is Sinking": The teacher will say "The boat is sinking, group yourselves into." (The teacher will pick a number less than or equal to the total number of pupils.) The class will count the number of groups formed and the pupils who did not belong to any group (remainder) if there are. The class will form and write a division sentence based or the groupings. Example: 45 pupils grouped by 7s 6 groups 3 out (remainder) 45 ÷ 7 = 6 r.3 Review for Day 3 and 4 (Estimating Quotient) Review for Day 5 (Problem Solving on Division) |
| B. Establishing Lesson Purpose | 1. Lesson Purpose Problem Opener: The cost of 18 books is 4 500 pesos. If the cost of each book is the same, find the cost of one book. 1) How will you determine the cost of 1 book? | For Day 1 and 2 Note: The pupils will not yet solve the problem since they were not yet taught how to divide by 2-digit numbers. They |

| | We will learn division to be able to the one above.2. Unlocking Content Vocabulary | will just think of a strategy or determine the operation to be used to solve the problem. | |
|---|---|--|--|
| C. Developing and Deepening Understanding | make repeated additions or skip counting Show the model below that illustrations of the model. The following Regroung $9 \text{ tens} = 1000 \text{ There are 6 groups}$ There are 6 groups Tens Regroups Regroups Regroups Regroups Regroups Regroups Regroups Regroups Regroups Regroups Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Solutions Sol | ps of 15 are there in 90? <i>(The pupils can ng, 15, 30, 45, 60, 75, 90)</i> tes the problem. Ask the learner to explain | For Day 1 and 2 The teacher may use other available models or manipulatives such as place value discs. The aim of this activity is to prompt learners for the extension of their learning of division. |

| Hundreds | Tens | Ones |
|--|---|---|
| ₱100 ₱100 ₱100 ₱100 ₱100 ₱100 ₱100 ₱100 ₱100 | P10 P10 P10 P10 P10 P10 | P1 P1 P1 P1 P1 P1 P1 P1 P1 |
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| Hundreds | Tens | Ones |
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| 3. Lesson Activity Find the quotient of the following numbers using your preferred strategy. 1. 78 ÷ 25 2. 914 ÷ 49 3. 389 ÷ 23 | Answer Worksheet No. 2 |
|---|--|
| DAY 3 | |
| SUB-TOPIC 3: Estimating Quotient | Note: |
| 1. Explicitation Go over answers to Worksheet No. 1 as a springboard to the new lessons. | Based on the responses or solution of pupils, the teacher |
| | will discuss the common errors |
| Guide Questions: | committed by pupils |
| 1. What is meant by estimation? | |
| How would you estimate the quotient of two numbers? Try to estimate the quotient of 73 and 5. | The teacher will ask and discuss with the pupils which among the answers is the best |
| 2. Worked Example | estimate. |
| Solve the following problem. | estimate. |
| a. A farm harvested 675 kilograms of Lanzones. About how many packs of | |
| Lanzones can be made if each must contain 7 kilograms? | |
| Let us follow a systematics way of estimating quotients. | The estimated value of the |
| Estimate the dividend by rounding to the highest place value. | dividend is 700. |
| • What is the highest place value in the dividend? | $700 \div 7 = 100$ |
| • What is the estimated value of the dividend? $675 \approx$ | Answer: About 100 packs of |
| Then, divide to get the estimated quotient. | Lanzones can be made. |
| | Lanzones can be made. |
| • Ask the pupils to give the answer in complete sentence. | 5 000 is not divisible by 30. If |
| • Therefore, | the estimated dividend is not |
| b. A drip from a leaky faucet can waste 4 950 liters of water in a month (30 | divisible by by the estimated |
| days). About how many liters of water are wasted in a day? | divisor, look for the closest |
| · · · · · | number that can be easily |
| • Estimate the dividend and divisor by rounding to the highest place. | divided by the divisor. |
| • What is the highest place value in the dividend? $4950 \approx $ | 4 800 is the closest number |
| • What is the highest place value in the divisor? | divisible by 30. |
| • What is the estimated value of the divisor? $30 \approx$ | $4\ 800 \div 30 = 16$ |
| • Then, divide to get the estimated quotient. | Answer: About 16 liters of |
| • If the estimated dividend is not divisible by the estimated divisor, look for the closest number that can be easily divided by the divisor. | water is wasted in a day. |

| T | | 1 |
|---|---|---|
| | • Ask the pupils to give the answer in the complete sentences. | |
| | • Therefore, | |
| | How do you conserve resources such as water? | |
| | 3. Lesson Activity | |
| | 1. $614 \div 65$ | |
| | 2. $7509 \div 8$ | Answer Worksheet No. 3 |
| | 3. $399 \div 4$ | |
| | 4. 5 286 ÷ 19 | |
| | 5. $9\ 300 \div 34$ | |
| | What is the importance of knowing how to estimate? | |
| | | |
| | DAY 4 | |
| | SUB-TOPIC 4: Problem Solving on Division | |
| | 1. Explicitation | Note: |
| | Go over answers to Worksheet No. 1 as a springboard to the new lesson. | Based on the responses or solution of pupils, the teacher |
| | Solve the problem by following the steps in problem solving. | will discuss the common errors |
| | A store earned 5 500 pesos on Monday and 6 780 pesos on Tuesday. On the | committed by pupils. |
| | average, how much did it earn each day? | ~ 1 1 |
| | | |
| | Step 1: Think | |
| | Given: 5 500 pesos on Monday; 6 780 on Tuesday | |
| | Asked: On the average, how much did it earn each day? | |
| | Step 2: Plan | |
| | Hidden Question: What is the total earnings for 2 days? | |
| | Number Sentence: $(5\ 500\ +\ 6\ 780)\ \div\ 2 = n$ | |
| | | |
| | Step 3: Solve | |
| | 5 500 + 6 780 = 12 280 | |
| | $12\ 280 \div 2 = 6\ 140$ | |
| | Answer: On the average, the store earned 6 140 pesos each day. | |
| | Step 4: Look Back | |
| | Review your answer. Is it correct? | |
| | | |
| | | |

| | 2. Worked Example Ask the pupils on how they will go about the problem. What are the steps in problem solving? Angela has 12 days left to red a 260-page book for her book report. She has already read 60 pages. How many pages should she read each day to finish the book on time? |
|------------------------------|---|
| | 3. Lesson Activity Solve the following problems. A team received cash prizes for winning in 3 games. They received 300 pesos, 200 pesos and another 200 pesos as the prizes. There are 4 pupils in the team. They divide the money equally among themselves. How much will each pupil receive? 750 pupils are going on a field trip. Two teachers are assigned for every group of 30 pupils. How many teachers are joining the trip? A baker has 5 trays of eggs. Each tray has 30 eggs. He uses 8 eggs for baking a cake. How many cakes can he bake? How many eggs are left over? |
| D. Making Generalizations | DAY 4 1. Learners' Takeaways Which strategy do you find easy to perform? In what situations can you use division? What values did you learn from the lesson? 2. Reflection on Learning |
| | Reflect: 3-2-1 |
| | 3 |
| | 2 Things I found interesting |
| | 1 Question I have |

| . EVALUATING LEA | RNING: FORMATIVE ASSESS | MENT AND TEACHER'S F | REFLECTION | NOTES TO TEACHERS |
|----------------------------|---|---|----------------------|--|
| A. Evaluating Learning | DAY 5 1. Formative Assessment A. Find the quotient. 1. 62 ÷ 13 2. 409 ÷ 66 B. Estimate the quotien 1. 6 421 ÷ 6 2. 469 ÷ 18 C. Solve the following p A school rece 20,000 for scholarsh scholars? 2. Homework (Optional) | Answer Key: A. Dividing by 2-Digit Numbers B. Estimating Quotients C. Problems Solving on Division Teachers may encourage learners to have a quiz notebook to monitor learners' academic progress. The quiz notebook may also serve as a 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 the effective practices and problems encountered after utilizing the different strategie materials used, learner engagement, and other related stuff. |
| | strategies explored | | | |
| | materials used | | | |
| | learner engagement/ interaction | | | Teachers may also suggest ways to improve the different |
| | others | | | activities explored/lesson exemplar. |
| C. Teacher's Reflection | • <u>principles behind the teaching</u> What principles and beliefs informed my lesson? Why did I teach the lesson the way I did? | | | Teacher's reflection in every lesson conducted/facilitated i essential and necessary to improve practice. You may als consider this as an input for the LAC/Collab sessions. |

| • <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? | |