



Lesson Exemplar for Mathematics

Quarter 4 Lesson

COVERNMENT PROPERTY E

NOY

IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 4: Lesson 3 (Week 3) 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
 Writer: Ma. Luz A. Cruz (Acacia National High School)
 Validator: Steve B. Anapi (Philippine Normal University – Manila)
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 4 / GRADE 4

I.	CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES				
A	Content Standards	The learner should have knowledge and understanding of: 1. simple patterns 2. number sentences			
B	3. Performance Standards	By the end of the quarter, the learners are able to: 1. generate a simple pattern and describe the rule used. (NA) 2. complete number sentences to represent number properties and number facts. (NA)			
С	 Learning Competencies and Objectives 	By the end of the quarter, the learners: 1. complete a number sentence: a. to represent a property of operations (e.g., 4 + 3 = 3 +) (commutative property of addition) b. to represent equivalent number facts (e.g., 4 + = 6 + 3)			
D	. Content	Number sentence			
E	. Integration				

II. LEARNING RESOURCES

Manitoba Education and Training. (2017). Grade 4 mathematics: patterns and relations. ISBN: 978-0-7711-8041-5. https://www.edu.gov.mb.ca/k12/cur/math/support_gr4/patterns.pdf

III. TEACHING AND LE	NOTES TO TEACHERS	
A. Activating Prior Knowledge	 DAY 1 & 3 1. Short Review Activity 1. Number Facts Check (Drill Activity) Flash Cards. Let learners determine the sum, difference, product, and quotient of two numbers. 2. Feedback (Optional) 	The intention of Activity 1 is for learners to commit to their memory of the basic operations. Number facts are essential in building learners' conceptual understanding of number sentences. Also, a good memory of number facts builds

		learners' confidence in doing mathematics. The teacher may use physical flashcards or slide presentations.
B. Establishing Lesson Purpose	 Lesson Purpose DAY 1 Let learners do Q4 Lesson 3 Week 3 Worksheet Activity 1. Unlocking Content Area Vocabulary 	This activity intends to activate the prior knowledge of learners on the number facts.
C. Developing and Deepening Understanding	 DAY 1-2 SUB-TOPIC 1: Represent Equivalent Number Facts Explicitation Do Activity 3 before discussing equivalent number facts. Equivalent number facts refer to number sentences that yield identical numerical outcomes or results when computed despite variations in the arrangement or composition of numbers and operations. Worked Example Example 1. 9 + 3 = 12 and 7 + 5 = 12, thus 9 + 3 = 7 + 5. Example 2. 27 - 12 = 15 and 30 - 15 = 15, thus 27 - 12 = 30 - 15. Example 3. 5 × 4 = 20 and 2 × 10 = 20, thus 5 × 4 = 2 × 10. Example 4. 15 ÷ 3 = 5 and 40 ÷ 8 = 5, thus 15 ÷ 3 = 40 ÷ 8. Example 5. 9 + 3 = 12 and 18 - 6 = 12, thus 9 + 3 = 18 - 6. Example 6. Determine the value of N in the number sentence. 8 + 12 = N × 4	Before introducing equivalent number facts, drill students on number facts using flashcards.
	$8 + 12 = N \times 4$ $20 = N \times 4$	20 = 20 (true)

To get the missing factor: $20 \div 4 = N$ Answer: $20 \div 4 = 5$, therefore **N = 5**.

Example 7. Determine the value of N in the number sentence.

64 - 8 = 25 + N

Solution.

64 - 8 = 25 + N56 = 25 + N

To get the missing addend: 56 - 25 = NAnswer: 56 - 25 = 31, therefore **N = 31**.

3. Lesson Activity

Find the value of N so that the number sentence is true.

Number Sentence	N
1. 27 - 6 = N \times 3	
2. N \div 7 = 12 - 8	
$3.45 \div N = 19 - 4$	
4. $8 \times 9 = 6 \times N$	
5. 34 - N = 89 - 78	

Answer Key:

- 1. 7 2. 28 3. 3
- 3. 3 4. 12
- 4. 12 5. 23

DAY 3-4

SUB-TOPIC 2: Properties of Addition and Multiplication

1. Explicitation

Drill learners on number facts (see Activity 1) Study the following:

Table 1

Operation	Number	Sentence
Addition	13 + 2 = 15	2 + 13 = 15
Multiplication	5 × 6 = 30	6 × 5 = 30

Before introducing commutative and associative properties of addition and multiplication, ask learners how they understand Table 1 and Table 2.

Table	0
Table	2

•

•

ole 2				
	Operation Number Sentence			
	Addition	(13 + 2) + 5 = 20	13 + (2 + 5) = 20	
	Multiplication	(3 × 1) × 8 = 24	3 × (1 × 8) = 24	
Com adde Com	mutative Property ends does not chang mutative Property o	of Addition states ge the sum. f Multiplication state	that changing the o es that changing the	order of the order of the
facto Asso	ors does not change ociative Property of A	the product. Addition states that c	hanging the grouping	g of addends
does	not change the sur	n. Multiplication states	that abanding the	mouning of

Associative Property of Multiplication states that changing the grouping of • factors does not change the product.

2. Worked Example

Instructions. Fill in the blanks to make each number sentence true.

Example 1. 13 + 19 = ____ + 19 Answer: 13

Example 2. $5 \times (3 \times 4) = (__ \times 3) \times 4$ Answer: 5

Example 3. $(27 + _) + 12 = 27 + (9 + _)$ Answer: 9, 12

3. Lesson Activity

Find the value of N in the following number sentences:

1. N + 12 = 32 = 12 + N

- 2. $2 \times (3 \times N) = 18 = (2 \times 3) \times N$
- 3. N + (17 + 25) = 51 = (N + 17) + 25
- 4. 7 × N = **42** = N × 7
- 5. $N \times (3 \times 2) = 54 = (N \times 3) \times 2$

*Add more examples for learners to practice procedurally.

Answer Key:

1.20	•
2.3	
3.9	
4.6	
5.9	

*Provide more examples before assessing the learners.

D. Making Generalizations	 Learners' Takeaways DAY 3 & 4 Per sub-topic, ask students what three things they have learned. Let them write it in their notebook and ask one to two students to share it with the class. 	
	 2. Reflection on Learning DAY 4 Let the students complete the sentence. The mathematical skill/s that I discover within myself while doing the activities that I want to improve most is/are 	

IV. EVALUATING LEAT	NOTES TO TEACHERS				
A. Evaluating Learning	 DAY 4 1. Formative Assessment Fill in the missing number 1. 4 × (N × 2) = 2 2. N + (74 + 9) = 3. 39 + N = 85 = 1 4. 5 × (3 × N) = 6 5. N × 9 = 81 = 9 2. Homework (Optional) 	Answer Key: 1. 3 2. 17 3. 46 4. 4 5. 9			
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 strategies, 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	 Reflection guide or prompt constraints <u>principles behind the</u> What principles and be Why did I teach the left <u>students</u> What roles did my students <u>ways forward</u> What could I have door What can I explore in 	an be on: <u>teaching</u> peliefs informed my lesson? esson the way I did? udents play in my lesson? s learn? How did they lear ne differently? the next lesson?	n?	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.