



Republic of the Philippines
Department of Education
REGION X- Northern Mindanao
SCHOOLS DIVISION OF LANAOS DEL NORTE

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Division Memorandum
No. 464, s. 2026

**DIVISION TRAINING ON EMPOWERING ELEMENTARY MATH TEACHERS THROUGH
DIGITAL APPLICATION AND MANIPULATIVE-BASED INSTRUCTION**

To: Public Schools District Supervisors/ District In-Charge
Elementary School Heads
Select Elementary Math Teachers
This Division

1. To ensure the continuity of delivering Quality Basic Education to the learners, this Office, through the Curriculum Implementation Division, shall conduct a **Division training on Empowering Elementary Math Teachers through Digital Application and Manipulative-Based Instruction** on **September 19 - 20, 2026** at **Guian Function Hall, Baroy, Lanao del Norte**.
2. The training aims to:
 - a. capacitate Mathematics teachers on the effective integration of digital applications essential in teaching Mathematics to improve learner engagement and conceptual understanding;
 - b. to develop teachers' competencies in designing manipulative-based instruction aligned with curriculum standards and promote higher-order thinking skills and;
 - c. demonstrate manipulative-based instructional design.
3. The participants to this activity shall be two (2) to three (3) elementary Math teachers per district and District Math Lead principals, as reflected in the following link: <https://bit.ly/45VPscQ>. Participants are advised to bring the following throughout the duration of the training: **laptops, extension wires, mobile internet connectivity, and other materials stipulated in the training matrix**.
4. Attached are Matrix of Activities and Program Management Team.
5. An **online simulation/pre-work activity** for the training staff shall be conducted on **September 14, 2026, at 2:00-3:00 p.m. via Google Meet**.
6. Travelling expenses, incidental expenses and training materials shall be charged against School MOOE/ Local funds subject to the usual accounting and auditing rules and regulations.



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MATRIX OF ACTIVITIES

Day 1 (September 19, 2026): Number Sense and Whole-Number Regrouping

Time	Session / Activity	Particular Competency	Speaker/s
8:00-8:30	Opening: What Does the Model Show?	Explain how a concrete or visual model represents a number, operation, or place-value relationship.	Marc Will L. Villacora
8:30-10:00	Number Sense Lab: Simple Operations	Compose and decompose numbers up to 10; illustrate addition as counting up/putting together, subtraction as taking away, multiplication as repeated addition, and division as equal sharing/grouping.	Marc Will L. Villacora
10:00-10:15	Health Break	-	-
10:15-12:00	Place Value and the Meaning of Regrouping	Recognize and represent whole numbers using concrete and pictorial models; determine place value; express numbers in expanded form.	Ingrid N. Penaflor
12:00-1:00	Lunch Break	-	-
1:00-2:30	Addition and Subtraction with Regrouping	Add and subtract whole numbers with and without regrouping; explain addition and subtraction using place-value models.	Daine P. Mejos
2:30-2:45	Health Break	-	-
2:45-3:45	Multiplication and Division with Regrouping	Multiply 2- to 3-digit whole numbers by a 1-digit number with and without regrouping; divide multi-digit whole numbers by 1- or 2-digit numbers with and without regrouping.	Kween Liz M. Tangian
3:45-4:45	Design and Share: One Whole-Number Activity	Create and explain a physical visualization aligned to one selected number-sense or whole-number competency.	Emily Mag-alasin
4:45 - 5:00	End of the Day Evaluation		
Training Facilitators/Documents: Richelle Mainar and Fia Dolauta			

Day 2 (September 20, 2026): Fractions and Their Operations

Time	Session / Activity	Particular Competency	Speaker/s
8:00-8:15	Fraction Number-Sense Warm-Up	Use number relationships and visual representations to estimate, compare, and reason about simple fractions.	Ingrid N. Penaflor
8:15-9:45	Fraction Meaning and Equivalence	Represent, identify, compare, and order unit/similar fractions; represent fractions equal to or greater than 1; identify proper, improper, and mixed fractions; generate equivalent fractions using models.	Daine P. Mejos
9:45-10:00	Health Break	-	-
10:00-12:00	Adding and Subtracting Fractions	Add and subtract similar and dissimilar fractions using models, including proper fractions and mixed numbers.	Kween Liz M. Tangian
12:00-1:00	Lunch Break	-	-
1:00-2:00	Multiplying Fractions	Multiply fractions using models; multiply a fraction by a fraction; obtain products involving fractions, whole numbers, and mixed numbers.	Marc Will L. Villacora
2:00-3:00	Dividing Fractions	Divide fractions using models; divide a fraction by a fraction; divide combinations of fractions, whole numbers, and mixed numbers.	Emily Mag-alasin
3:00-3:15	Health Break	-	-
3:15-4:00	Design Task: One Fraction Activity	Create a competency-specific physical visualization for one selected fraction concept or operation.	Emily Mag-alasin
4:00-4:45	Manipulative Gallery Walk and Closing	Explain how a physical visualization supports the selected competency and connects to the abstract procedure.	Daine P. Mejos
4:45 - 5:00	End of the Day Evaluation		
Training Facilitators/Documenters: Richelle Mainar and Fia Dolauta			

MATERIALS TO BRING:

Internet connection; laptop, extension wire

Writing materials

Math Manipulatives: counters, base ten blocks, fraction tiles/circles, place value chart

Common crafting materials and tools (*craft papers, boards, cartolina, scissors, cutters, glue, stick glue + gun, papers, paper cups*); colored paper chips



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7. Furthermore, service credits shall be granted to teaching personnel who are involved in the conduct of the said training per DepEd Order No. 53 s. 2003, upon submission of two copies of accomplished Form 48.

8. For more information and queries, please contact Lorraine C. Olavides-Edrea, EPS in Mathematics at lorraine.olavides@deped.gov.ph.

9. Immediate dissemination of and strict compliance with this Memorandum by all concerned is highly enjoined.

EDWIN R. MARIBOJOC EdD, CESO V
Schools Division Superintendent *per q*

ATCH.: As stated

Reference:

To be indicated in the Perpetual Index
under the following subjects

CURRICULUM

CAPACITY BUILDING

MANIPULATIVE

DIGITAL APPLICATION

CID / lcoe

August 27, 2026



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