



Lesson Exemplar for Mathematics

Quarter 4 Lesson 6

COVERNMENT PROPERTY E

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IMPLEMENTATION OF THE MATATAG K TO 10 CURRICULUM

Lesson Exemplar for Mathematics Grade 4 Quarter 4: Lesson 6 (Week 6) SY 2024-2025

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MATHEMATICS / QUARTER 4 / GRADE 4

I.	I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES							
А.	Content Standards	The learner should have knowledge and understanding of decimal numbers and their relationship to fractions.						
В.	Performance Standards	By the end of the quarter, the learners are able to convert decimal numbers to fractions and fractions (with denominators 10 or 100) to decimals.						
C.	Learning Competencies and Objectives	Convert decimal numbers to fractions, and fractions with denominators 10 or 100 to decimals.						
D	Content	Conversion of Decimals to Fractions Conversion of Fractions with Denominators 10 or 100 to Decimals						
E.	Integration	Accuracy in taking medicine, Health and Environment						

II. LEARNING RESOURCES

Atlantic Business Network. (n.d.). Digital balance. Atlantic Business Network. http://atlanticbiznet.ca/product/digital-balance/

Drugs.com. (n.d.). G 0.5 pill – white five-sided, 9mm. Drugs.com. https://www.drugs.com/imprints/g-0-5-11408.html

Fist Philippine Scales, Inc. (n.d.). Fuji 5 kg table scale, small, mechanical dial type, anti bacterial powder coat, best for home and kitchen, flat plate, FTF-5J. *Timbangan.ph*. <u>https://shop.timbangan.ph/products/ftf-5j</u>

Frayer Model Diagram. (n.d.). Abetances Portfolio Weebly. https://abetancesportfolio.weebly.com/frayer-model--vocab.html

III. TEACHING A	AND LEA	RNING P	ROCEDU	RE						N	OTES	s to	TEAC	HER	S
A. Activating Prior Knowledge	DAY 1 1. Sho A. V	o rt Revie Write the	w following	numbers i	n fract	ion form an	d decimal form.		We dec hov	lea: cima w to	rned ds are write	that f e rela e fract	ractic ted. L tions	ons ar et us and	nd reviev
		woi	d form		fractio	on form	decimal form	n	dec	cima	ıls in	symb	ols.		
	1	. two-ten	ths						An Act	swe tivit	r to t ty:	he S	hort]	Revie	W
	2	. five-tent	ths						<u>A.</u>						
	3	. seven h	undredths	3						word	form	fr	action form	de	ecimal form
	4	. eighteer	n hundred	ths					1.1	two-te	enths		$\frac{2}{10}$		0.2
	5. h	. ninety-r undredth	nine Is						2.1	five-te	enths		5 10		0.5
	B. V	Write the	decimal fo	orm in Par	t A in t	he Place Va	lue Chart below.		3. s hu	seven ndrec	lths		$\frac{7}{100}$		0.07
			Tens	Ones	•	Tenths	Hundredths		4. e hu	eighte ndrec	een lths		$\frac{18}{100}$		0.18
		1)							5. r hu	ninety ndrec	y-nine lths		99 100		0.99
		2)							В.			1	1		
		3)													ths
		4)									Tens	Ones		Tenths	Hundred
		5)								1)	-	0		2	
										, 2)		0		5	
	2. Fee	dback (O)ptional)							, 3)		0		0	7
										4)		0		1	8
										5)		0		9	9
													I		

B. Establishing Lesson Purpose	 Lesson Purpose a) What do you notice about the fractions in the Short Review Exercise Part A? b) How is the decimal form related to the denominator of the fraction form? Unlocking Content Area Vocabulary 	 a) Expected responses from the learners: The numerator has either one or two digits. The denominator is either ten or one hundred The numerators are smaller than the denominators. Fractions given are proper fractions. b) Expected responses from the learners: When the denominator is ten, there is only one decimal place. When the denominator is one hundred, there are two decimal places.
C. Developing and Deepening Understanding	 SUB-TOPIC 1: Conversion of Decimal to Fraction 1. Explicitation A. Decimal number with 1 decimal digit: Let us discover how to convert a decimal number with 1 decimal digit to fraction. Example 1: Convert 0.4 to fraction. How do you write 0.4 in word form? four-tenths How do you write four-tenths in fraction form? ⁴/₁₀ Example 2: Convert 0.8 to fraction. How do you write 0.8 in word form? eight-tenths 	Remind the learners that the denominator depends on the values of how decimals are written, that is 0.1 (one tenth) is equivalent to $\frac{1}{10}$.
	How do you write 0.8 in word form? eight-tenths How do you write eight-tenths in fraction form? $\frac{8}{10}$ In general, how do you convert a decimal with 1 decimal digit to fraction? To convert the decimal to fraction, write the decimal digit in the numerator and write 10 in the denominator.	

 B. Decimal number with 2 decimal digits: Let us discover how to convert a decimal number with 2 decimal digits to fraction. Example 1: Convert 0.03 to fraction. How do you write 0.03 in word form? three hundredths How do you write three hundredths in fraction form? ³/₁₀₀ 	Decimal number with 2 decimal digits: To convert the decimal to fraction, write the decimal digits in the numerator and write 100 in the denominator.
Example 2: Convert 0.25 to fraction. How do you write 0.25 in word form? twenty-five hundredths How do you write twenty-five hundredths in fraction form? $\frac{25}{100}$ In general, how do you convert a decimal with 2 decimal digits to fraction? To convert the decimal to fraction, write the decimal digits in the numerator	Remind the learners that the denominator depends on the values of how decimals are written, that is 0.11 (eleven hundredths) is equivalent to $\frac{11}{100}$.
 DAY 2 2. Worked Example a. Convert the following decimals to fraction: i) 0.6 ii) 0.9 b. Convert the following decimals to fraction: i) 0.05 ii) 0.48 	Let the learners recall first the rules in converting decimals to fractions. This may be done orally and repeatedly until the learners recalled the rules. Note to teacher: Answer to Worked Example: a. i) $\frac{6}{10}$ ii) $\frac{9}{10}$ b. i) $\frac{5}{10}$ iii) $\frac{48}{10}$
 3. Lesson Activity Answer the conversion problems. A meter stick measures 1 meter. 1 meter is equal to 100 centimeters. 0.1 (one-tenth) of a meter is equal to 10 centimeters. Convert the decimal to fraction. 0.1 = 1/10 2) Alprazolam 0.5 milligram is used in the treatment of anxiety and panic disorder. Convert the decimal to fraction. 0.5 = 5/10	 Note to Teacher on the Lesson Activity: a) The teacher may bring an actual meter stick to show the students the measurements using the meter stick. b) The teacher may show a picture of the medicine pill.

3) A tablespoon is equivalent to about 0.75 milliliter. 0.75 milliliter is about 15 drops. Convert the decimal to fraction.

 $0.75 = \frac{75}{100}$

Note:

Since $\frac{75}{100}$ or $\frac{3}{4}$ mL is equal to 15 drops, then 1 mL is equivalent to 20 drops and a teaspoon is about 5 mL. Using the materials brought, the teacher will show whether the teaspoon is accurate or not.

DAY 3

SUB-TOPIC 2: Conversion of Fractions with Denominators 10 or 100 to Decimals

1. Explicitation

Let us review how to read and write fractions and decimals, try writing the following in symbols:

word form	fraction form	decimal form
1) three-tenths		
2) seven-tenths		
3) eight-tenths		
4) six hundredths		
5) fifteen hundredths		
6) fifty hundredths		



- c) The teacher may bring material like teaspoon (commonly used at home, medicine cup and dropper). In this lesson, the teacher will use the dropper in showing 15 drops is equivalent to 0.75 milliliter.
- d) The teacher may also let learners use the materials brought in measuring (e.g. meter stick, droppers, medicine caps etc.) to foster authentic learning.

Value integration can be discussed when taking medicine, students should be very careful in measuring or following the prescribed volume or amount in taking the medicine. Let the learners share the importance of being accurate in following the prescriptions and procedures of doctors.

- 1. What do you observe about the fraction forms and decimal forms of the numbers from 1-3?
- 2. What do you observe about the fraction forms and decimal forms of the numbers from 4-6?
- 3. How do you write fractions (tenths) in decimal form?
- 4. How do you write fractions (hundredths) in decimal form?

Note:	Answers:					
 To write tenths in decimal form, write the numerator in the tenths place. To write hundredths in decimal form, write the tens digit in the numerator 	word form	fraction form	decimal form			
 If the numerator is a 1-digit number, write zero in the tenths place. 	1)three-tenths	$\frac{3}{10}$	0.3			
2. Worked Example	2. seven-tenths	$\frac{7}{10}$	0.7			
a) Convert the following fractions to decimals: i) $\frac{4}{10}$ ii) $\frac{9}{10}$	3. eight-tenths	$\frac{8}{10}$	0.8			
b) Convert the following fractions to decimals:	4. six hundredths	$\frac{6}{100}$	0.06			
i) $\frac{7}{100}$ ii) $\frac{65}{100}$	5. fifteen hundredths	<u>15</u> 100	0.15			
DAY 5	6. fifty hundredths	<u>50</u> 100	0.50			
 3. Desson Activity Answer the conversion problems. Using an analog weighing scale, sugar has a mass of ⁵/₁₀kg. What is the mass of the sugar using a digital weighing scale? ⁵/₁₀ = 0.5 2) I have a 1 000-peso bill. I exchanged it with 100 pieces of 10-peso coins. ²⁵/₁₀₀ of ₱1 000 is equivalent to 25 pieces of 10-peso coins. Convert the fraction to decimal. ²⁵/₁₀₀ = 0.25 3) How many years are there in a century? At present (2024), we are in the 21st Century. By 2100 we will be in the 22nd century. How many more years before we reach the 22nd Century? We will be counting 76 more years out of 100 or ⁷⁶/₁₀₀. Convert the fraction to decimal. ²⁶/₁₀₀ = 0.76	 Expected answ for 1-3: The denomin fractions is 1 There is only place. Expected answ 4-6: The denomin fractions is 1 There are two Note to teacher: Responses to Wor a. i) 4/10 b. i) 7/100 	vers of lease ator of the one deciman vers of lease ator of the odeciman rked Exa ii) $\frac{9}{10}$ ii) $\frac{65}{100}$	earners ne imal earners he 1 places. umple			

1) The teacher may show pictures of an analog and digital weighing scale 2) The teacher may ask the pupils how much is $\frac{25}{100}$ of $\mathbb{P}1\ 000$. Values Integration for letter C: The teacher may ask: How old are you now? Do you have relatives or friends whose age is at least 85 to 90 years? **Reflection questions:** a. What do you think these people did to reach that age for them to be able to go to the next century (from 20th to 21st century)? b. Would you like to reach another century? How will you be able to do it? In what ways? Expected responses from learners: • eating healthy foods like fruits and vegetables • regular exercise • happy and clean environment

D. Making Generalizations	 DAY 5 1. Learners' Takeaways Use the Frayer Diagram to show what you learned. Frayer Model Diagram 	Note to teacher: Ask the pupils to write the specific concept or lesson they learned from the topics in the oval at the
	Definitions Characteristics Examples Non-Examples	middle. Once done by the students, the teacher may choose or may ask for some volunteers to share their responses.
	2. Reflection on Learning Give instances when these lessons can be of help to you.	

IV. EVALUATING	LEARNING: FORMATIVE ASSESSMENT AND TEACHER'S REFLECTION	NOTES TO TEACHERS
A. Evaluating Learning	1. Formative Assessment A. Convert the fraction to decimal. 1) $\frac{1}{10}$ 2) $\frac{4}{10}$ 3) $\frac{9}{100}$ 4) $\frac{13}{100}$ 5) $\frac{82}{100}$ B. Convert the decimal to fraction. 1) 0.2 2) 0.7 3) 0.08 4) 0.70 5) 0.48	Answers: A. 1) one-tenth 2) four-tenths 3) nine hundredths 4) thirteen hundredths 5) eighty two hundredths B. 1) $\frac{2}{10}$ 2) $\frac{7}{10}$ 3) $\frac{8}{100}$ 4) $\frac{70}{100}$ 5) $\frac{48}{100}$

B. Teacher's Remarks	Note observations on any of the following areas: strategies explored materials used learner engagement/ interaction others	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. Teachers may also suggest ways to improve the different activities explored/lesson exemplar.
C. Teacher's Reflection	 Reflection guide or prompt car <u>principles behind the ta</u> What principles and be Why did I teach the les <u>students</u> What roles did my students <u>ways forward</u> What could I have done What can I explore in the 	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.		