

 GRADES 1 to 12 DAILY LESSON LOG	School:		Grade Level:	VI
	Teacher:		Learning Area:	MATHEMATICS
	Teaching Dates and Time:	NOVEMBER 28 – DECEMBER 2, 2022 (WEEK 4)	Quarter:	2ND QUARTER)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I. OBJECTIVES					
A. Content Standard	The learner demonstrate understanding of order of operations, ratio and proportion, percent, exponent, and integers				
B. Performance Standard	The learner is able to apply knowledge of order of operations, ratio and proportion, percent, exponent, and integers in mathematical problems and real-life situations				
C. Learning Competencies / Objectives	Find the percentage when the rate and base are given M6NS-IId-142	Find the rate or percent when the percentage and base are given M6NS-IId-142	Find the base when the percentage and rate are given M6NS-IId-142	solves routine and non-routine problems involving finding the percentage, rate and base using appropriate strategies and tools. M6NS-IId-143	
II. CONTENT	Finding the percentage when the rate and base are given	Finding the rate or percent when the percentage and base are given	Finding the base when the percentage and rate are given	Problem solving involving percentage, rate and base	
III. LEARNING RESOURCES					
A. References					
1. Teacher’s Guide pages					
2. Learner’s Materials pages					
3. Textbook pages					
4. Additional Materials from Learning Resource (LR) Portal					
B. Other Learning Resources	Power point presentation	Power point presentation	Power point presentation	Power point presentation	
IV. PROCEDURES					
A. Reviewing previous lesson or presenting the new lesson	Drill on changing percent to ratio, decimal to percent, fraction to percent, and vice versa a. Strategy 1 – Relay Materials: 15 flash cards (each card has a ratio, decimal, percent, or fraction) 5 sets of answer sheets posted on the board Mechanics:	Activity 1 – “Naming the Baby” Materials: flash cards with percent Mechanics: a)Ask each pair of pupils to “Name the Baby” (the question on the card). Sample flash cards: 2:8 in percent is _____. 0.35 in percent is _____. $\frac{1}{2}$ in decimal is _____.	Activity 1 – Search for Gold Materials: 10 flash cards with percents 4 sets of answer sheets with columns for percent and decimal Mechanics: 1) Form 4 teams with equal number of members. 2) Give each leader of the team sets of ten (10) flash cards having the same question. Sample: 75% in decimal is _____ 375% in decimal is _____	Do what is asked for: 1) What is 25% of 30? _____ 2) Forty is what percent of 200? _____ 3) 18 is 30% of what number? _____ Ask: What are the steps in solving a problem? In what steps will the following questions fall? What is asked? What are the given facts? What is the process to be used? What is the number sentence? Show the solution and complete answer.	

	1) Have four (4) lines of pupils with the same number of members, if possible. 2) Each pupil in front of the line renames the ratio to percent, decimal to percent, fraction to percent, or vice versa by writing the number on the board as the teacher flashes the card. 3) The teacher fastens the card on the board in the column it belongs. 4) As soon as the pupil writing his answer on their sheet finishes, he has to touch the second pupil in the line and goes at the end of the line 5) The teacher flashes the next card and repeat numbers 2 to 4. 6) The teacher checks the answers and adds the scores after the last card is flashed.	b)The answer is written on their “Show-Me-Board”. Activity 2 – Find My Partner Materials: flash cards with decimals, ratio, fractions, and percent Mechanics: a) Each pupil should be given a flash card with question on it. Sample: 0.25 25% 10:100 10% $\frac{1}{5}$ 0.2 b)Each pupil looks for his/her partner within the time limit. c)The pair flashes their cards. d)The flashed cards are checked.	3) The members of the team work together to answer the sets of flash cards and presented their answer sheets as soon as they are through. 4) The teacher checks the presented answer together with the class. 5) The team with a perfect score gets a gold star shape art paper. Review: Cooperative Work Materials: 4 sets of 2 flash cards with division of whole numbers by decimals 4 sets of manila paper 4 pentel pens Mechanics: 1)Ask each leader of the team to get 2 flash cards with division of a whole number by a decimal. 2)The members solve for the quotient and write the solution on a manila paper to be posted on the board.	
B. Establishing a purpose for the lesson	Ask the pupils about their target/aim in answering a 20-item test. “What’s your target score in a 20-item test? What passing grade is it?” (75%, 80%, 90%, or 100%). The pupils have the freedom to choose.	Ask the pairs of pupils on how they use their school supplies. Sample: “Do you use the front and back pages of your notebook? Why?”	How much is your daily allowance?	How much money do you spend in school every day? Do you save some of it for future use? Why did you do it? Share your experience. Let the pupils realize the importance of being thrifty.
C. Presenting Examples/Instances of new lesson	Activity 1 – Use of Compatible Number through Manipulatives (Counters) Pablo listens very well to the teacher during the discussion of the lesson. When they were given a 5-item test his grade was 80%. How many correct answers did Pablo get?	Sixto, a grade six pupil, has 24 sheets of art paper for his project in Math. If 6 sheets of art paper were used by Sixto, what percent of the sheets of art paper did he use? 1)Ask the pupils the following questions: a)Who uses art paper for Math project?	Manuel, a son of a school janitor, does not ask for more. He has a daily allowance of ₱10 a day which is 20% of his classmates daily allowance. How much is his classmate’s daily allowance?	Present this problem. Reyes family has a monthly income of P 15 850. They allotted 40% of for food, 25% for education, 15% for water and electricity fare, 8% for transportation, 7% for miscellaneous expenses and 5% for savings. How much money is allotted for their savings? Ask: What is asked in the problem? What are the given facts? What is the operation to be used?

		b)How many sheets of art paper does he have? c)How many sheets of art paper did he use? d)If you were Sixto, will you be using all the sheets of art paper and ask some more? Why? e)Will you do what Sixto has done if you were Sixto? Why?		
D. Discussing new concepts and practicing new skills #1	1.Ask the following questions. a.Who listens very well to the teacher? b.How many items was their test? c.What was his grade in the test? d.If you were Pablo, will you also be listening intently to the teacher? Why? e.Do you think you can get a higher grade than Pablo? Why do you think that you can get a higher grade than Pablo?	Let the pupils analyze the problem. a)What does the problem want you to solve for? b)What are the given data? c)What are the needed data? Ask them to determine the base and percentage in the <i>Techan's Triangle</i> . d)What will you do to find the answer? e)What equation best translates the problem? f)Guide the pupils write the equation to solve the problem. g)What proportion best suits the problem? Lead them to write the proportion.	1)Require them to answer the following questions. a)Who is the son of a school janitor? b)How much is his daily allowance? c)Does he ask for more allowance like his other classmates? Why? d)Do you think Manuel spends his money wisely? How do you know? e)If you were in his shoes, what will you do? Why? 2)Guide the pupils to analyze the problem. a)What does the problem require you to look for? b)What facts are given? c)What are the needed data? Have them point the percentage and rate in the <i>Techan's Triangle</i> . d)What will you do to solve the answer. e)What equation best transforms the problem? Lead them to write the equation to solve the problem.	Ask the pupils to work in groups in solving the problem. Ask: Why does Reyes family allotted a certain amount as savings? Is it a good thing to save money?
E. Discussing new concepts and practicing new skills #2	Let each pair of pupils get their manipulatives of five (5) identical small squares (2 centimetres x 2 centimetres). Ask them to answer the following questions. a.What are the given data? Lead the pairs of pupils point which among the given data can	Group the pupils into 5. 1)Have the pupils answer the following questions by group. a)What facts are given? Let them identify the base and percentage using the <i>Techan's Triangle</i> .	Group Activity: 75% of N is 15. 15 is 75% of what number? 15 is 75% of N. 75% of N = 15. 75% of what number is 15? 1) Have the pupils answer the following questions.	Group Activity: 1.A pair of leather shoes was on sale and was given a discount of P 600 at 30%. What was the original price of the shoes? 2. There are 24 carabaos in the farm and 6 of them are male. What percent of the 24 carabaos are male? Think: What percent of 24 is 6? 3. Joselito got 80% of 60 items correct in a mathematics test. How many correct items did he get?

	be the rate, base, and percentage through the use of <i>Techan's Triangle</i>. Let them get 80% of 5 counters through the teacher's guidance starting from having a 5-item test as 100%. b. Lead the pairs of pupils to decide what to do to arrive at the answer. c. What is the equation for the problem? Ask the pupils to write the equation to solve the problem. Let them use the manipulatives (of 80% of 5) in relating to the equation as well as the solution. 80% of 5 $80\% \times 5 = N$ $0.8 \times 5 = N$ $N = 4$ What proportion best suits in the problem? Have the pairs of pupils write the proportion to arrive at the answer. Let them use the manipulatives in relating to the formulated proportion and the solution.	b) What will you do to arrive at the answer? c) What equation is suited to the problem? d) What proportion best fits in the problem? e. Let them choose a reporter to discuss their answer in front.	What data are given? Ask them to determine the percentage and rate in the <i>Techan's Triangle</i>. What process will you use to arrive at the answer? What equation suits in the problem? What proportion is best for the problem?	
F. Developing mastery (Leads to Formative Assessment)	Group Activity: Solve for the percentage. a. 36% of 95 is N. b. 48% of 290 is what number? c. N is 20% of 8? d. What is 20% of 8? e. 60% of 80 is ____.	Brother and sister technique: Let the fast learners teach their partners how to get the answer to the ff. questions 1. What percent of 105 is 35? 2. 72 is what percent of 144? 3. N% of 56 is 7 4. 24 is N% of 120 5. 2.5 is what percent of 75? b. Read, analyze and solve. 1. In a class of 50 pupils, 24 are boys. What percent of the class are boys? What percent are girls? 2. A vendor had 200 balloons for sale. If he sold 125 of them, what percent remains unsold?	A. Solve for the base. 1) 50% of ____ is 3. 2) 20% of what number is 14. 3) 14 is 35% of N. 4) 10.5 is 30% of what number? 5) 65% of N = 58.5. B. Read, analyze and solve 1. In a math class, 8 pupils receive a grade of 90. If 16% of the class got 90, how many pupils are there in a class? 2. In a Grade 6 outing, 240 pupils participated if 80% joined the outing, how many grade 6 pupils are there in the school?	Solve. 1. Elena has 12 hours working at home daily as a full time wife and mother. She spends 12.5% of the time washing clothes. How many hours does she wash the clothes? 2. Among the 50 pupils in a Grade 6 class, 6% are left-handed. How many are left-handed? 3. Maria's allowance is ₱50 daily. She saves 8% of it. How much does she save?

G. Finding practical applications of concepts and skills in daily living	Pair-share: a. There are 40 pupils in a class. Seventy-five percent of them are present. How many are present? How many are absent? b. Rhoda's allowance for the day is ₱250. She spends 80% of it and saves the rest. How much does she spend? How much does she save?	Solve the ff. problem. a) Ricardo got 90% of a 20-item test in Math. How many items did he answer correctly? b) In a school of 680 Grade 6 pupils, 646 graduated. What percent of the Grade 6 pupils graduated? How many did not graduate? c) One stormy day, 12 pupils of Mrs. Loyola were absent. If there are 50 pupils in the class, what percent of the class is absent? present?	Solve the ff.problems. 1. A grade six class went on a field trip. Only 98% or 49 pupils joined the activity. What was the class enrolment? 2. Chito has ₱20 in his pocket which is only 5% of the money of her sister. How much is the money of her sister?	Solve the ff.problems. 1.Rosa got 20% of an 80 item test incorrectly. How many items did she get correctly. 2.Lilia has an error of 20% in a 60-item test. How many mistakes does Lilia have in the test? 3.Ruby has ₱170 in her pocket. She gives 50% of the money to her youngest brother. How much does Ruby give to her brother? 4.The money of Mr. Manipis is not enough to buy a wrist watch at ₱3,000. His wife gives him 80% of the cost? How much money does he receive from his wife? 5.There were 50 pupils in Grade III. If 28% of the pupils were absent, how many pupils were present?
H. Making generalizations and abstractions about the lesson	How do you find the percentage when the rate and base are given?	How do you find the ratio or percent when the base and percentage are given?	How do you find the base when the percentage and rate are given?	How do you solve problems involving percentage, rate and base ?
I. Evaluating Learning	Answer the following: 1.What is 25% of 4? 2. ____ is 10% of ₱1,000,000. 3.N is 50% of 2. 4.What number is 1% of ₱1,000. 5.200% of 3 is what number? 6. $\frac{5}{8}$ % of ₱6,000 is ____. 7.75% of 12 is ____. 8.What is $\frac{3}{8}$ of ₱1,000,000? 9.60% of 30 is N. 10.N is 0.125% of ₱20,000. 11.30% of 600 is what number? 12. ____ is $\frac{1}{2}$ % of 5,000. 13.230% of 90 is N. 14. $\frac{1}{5}$ % of ₱1,000 is ____. 15.150% of ₱400 is ____.	Answer the following: 1) ____% of 10 = 2. 2) N% of 28 is 14. 3) What percent of 20 is 5? 4) 4 is what percent of 20? 5) 18 is N% of 30. 6) ____% of 80 = 20. 7) N% of 180 is 35 8) what percent of 800 is 400? 9) 7.5 is what percent of 30? 10) 18 is N% of 24. 11) ____% of 1000 = 2. 12) N% of 800 is 300. 13) What percent of 940 is 89? 14) 20 is what percent of 40. 15) 90 is N% of 3600..	Solve for n. 1) 20% of n is 2. 2) 7 is 35% of n. 3) 40% of n = 8. 4) 10 is 40% of what number? 5) 25% of what number is 2? 6) 49.3 is 58% of n. 7) 76% of n = 49.4. 8) 24% of n is 10.8. 9) 8 is 20% of what number? 10) 14% of what number is 11.9? 11) 95 is 80% of n. 12) 125 is 20% of what number? 13) $\frac{1}{8}$ of n = 12.5. 14) 12.5 is $\frac{1}{2}$% of what number? 15) 875 is 87.5% of n.	Answer the following: 1.Joy got 70% of the 50 words in the spelling contest. How many words did he spell correctly? 2. A bag that costs P450 is marked 15% discount. How much would you pay for the shirt? 3. Of the 120 Grade 6 pupils, 30 prefer apples, 44 want oranges and the rest want bananas. What percent of the Grade 6 pupils prefer bananas? 4. The newly elected President of SPG got 35 out of 70 votes from his classmates. What percent of the votes did he get? 5. Out of 50 pupils, only 48 joined the educational trip. What percent joined the trip? 6.Cesar invited 250 kids to his birthday party. Only 25% of the kids did not showed up. How many kids came to the party?

J. Additional activities for application and remediation	Complete the table. <table><thead><tr><th></th><th>Base</th><th>Rate</th><th>Percentage</th></tr></thead><tbody><tr><td>1</td><td>30</td><td>10%</td><td></td></tr><tr><td>2</td><td>50</td><td>60%</td><td></td></tr><tr><td>3</td><td>60</td><td>30%</td><td></td></tr><tr><td>4</td><td>180</td><td>150%</td><td></td></tr><tr><td>5</td><td>200</td><td>75%</td><td></td></tr><tr><td>6</td><td>700</td><td>65%</td><td></td></tr><tr><td>7</td><td>900</td><td>8%</td><td></td></tr><tr><td>8</td><td>1260</td><td>33%</td><td></td></tr><tr><td>9</td><td>6000</td><td>2%</td><td></td></tr><tr><td>10</td><td>10 000</td><td>275%</td><td></td></tr></tbody></table>		Base	Rate	Percentage	1	30	10%		2	50	60%		3	60	30%		4	180	150%		5	200	75%		6	700	65%		7	900	8%		8	1260	33%		9	6000	2%		10	10 000	275%		Solve. 1)What percent of 8 is 64? 2)7 is what percent of 35? 3)63 is N% of 252. 4) _____% of 9 = 45. 5) N% of 875 is 210. 6) 657 is N% of 876. 7) _____% of 250 = 245.	Solve. 1) 6% of n = 4.5. 2) 6.72 is 7% of what number? 3) 12% of n is 14.4. 4) 117 is 65% of n. 5) 88% of what number is 660? 6) 125% of n is 900. 7) 220 is 275% of n.	Solve: 1.Of 40 pupils only 30 pupils passed their project on time. What percent passed their project? 2. Rhod gets 95% of the Math test correctly which is 38. How many items does the test have? 3. In a Grade 6 class of 40 pupils, 36 pupils attended the meeting of the Math Club. What percent of the class attended the meeting?
	Base	Rate	Percentage																																													
1	30	10%																																														
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6	700	65%																																														
7	900	8%																																														
8	1260	33%																																														
9	6000	2%																																														
10	10 000	275%																																														
V. REMARKS																																																
VI. REFLECTIONS																																																
A. No. of learners who earned 80% on the formative assessment																																																
B. No. of learners who require additional activities for remediation who scored below 80%																																																
C. Did the remedial lessons work? No. of learners who have caught up with the lesson																																																
D. No. of learners who continue to require remediation																																																
E. Which of my teaching strategies worked well? Why did this work?																																																
F. What difficulties did I encountered which my principal or supervisor can help me solve?																																																
G. What innovation or localized materials did I use/discover which I wish to share with other teachers?																																																