



GRADES 1 to 12
DAILY LESSON LOG

School: Teacher: Teaching Dates and Time:	Grade Level: VI Learning Area: MATHEMATICS
	Quarter: 2 ND 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	finds the percentage or rate or percent in a given problem. 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, Base and Rate in a Given Problem																																														
III. LEARNING RESOURCES	List the materials to be used in different days. Varied sources of materials sustain children's interest in the lesson and in learning. Ensure that there is a mix of concrete and manipulative materials as well as paper-based materials. Hands-on learning promotes concept development.																																														
A. References																																															
1. Teacher's Guide pages																																															
2. Learner's Materials pages	Math 6 Module, p. 1-14	Math 6 Module, p. 1-14																																													
3. Textbook pages																																															
4. Additional Materials from Learning Resource (LR) Portal																																															
B. Other Learning Resources																																															
IV. PROCEDURES																																															
	WHAT'S IN A. Identify the base, rate, and percentage by completing the table below. The first one is done for you. Write your answers on your answer sheet. <table border="1" data-bbox="461 1297 823 1428"> <tr> <th>Statement</th> <th>Base</th> <th>Rate</th> <th>Percentage</th> </tr> <tr> <td>1. 2% of 30 is 0.6</td> <td>30</td> <td>2%</td> <td>0.6</td> </tr> <tr> <td>2. 12 is 50% of 24</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3. 15% of 100 = 15</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. 6% of 900 = 54</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5. 90% of 50 = 45</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6. 15 is 60% of 25</td> <td></td> <td></td> <td></td> </tr> </table>	Statement	Base	Rate	Percentage	1. 2% of 30 is 0.6	30	2%	0.6	2. 12 is 50% of 24				3. 15% of 100 = 15				4. 6% of 900 = 54				5. 90% of 50 = 45				6. 15 is 60% of 25				WHAT'S MORE A. Find what is asked. Write your solutions on your answer sheet. 1) What is 40% of 90? 2) Twenty-five percent of 120 is what number? 3) What number is 20% of 130? 4) Eighteen percent of 150 is what number? 5) What is 30% of 960?	WHAT'S IN A) Find what is asked. You can use any methods in solving for the percentage. Write your solutions on your answer sheet. 1) What is 25% of 700? 2) Forty-five percent of 325 is what number? 3) What number is 20% of 130? 4) In a class of 52 children, 75% are boys. How many girls are there in the class?	WHAT'S MORE Read and analyze the problems below. Show the complete answer on your answer sheet. 1) What percent of 30 is 6? 2) Fifteen is what percent of 25? 3) One hundred twenty-five is what percent of 500? 4) Twenty is what percent of 200?	ASSESSMENT A. Match Column A with Column B. B. Write the letter of the correct answer on your answer sheet. <table border="0" data-bbox="2021 1158 2371 1305"> <tr> <td style="text-align: center;">Column A</td> <td style="text-align: center;">Column B</td> </tr> <tr> <td>1) What percent of 40 is 10?</td> <td>A. 30%</td> </tr> <tr> <td>2) Thirty-six is what percent of 120?</td> <td>B. 25%</td> </tr> <tr> <td>3) What percent of 375 is 75?</td> <td>C. 85%</td> </tr> <tr> <td>4) Fifty is what percent of 1000?</td> <td>D. 31%</td> </tr> <tr> <td>5) Seven hundred thirty-two and seven tenths is what percent of 862?</td> <td>E. 5%</td> </tr> <tr> <td></td> <td>F. 20%</td> </tr> </table> B. Solve the following problems. Show your solutions on your answer sheet and label your final answers.	Column A	Column B	1) What percent of 40 is 10?	A. 30%	2) Thirty-six is what percent of 120?	B. 25%	3) What percent of 375 is 75?	C. 85%	4) Fifty is what percent of 1000?	D. 31%	5) Seven hundred thirty-two and seven tenths is what percent of 862?	E. 5%		F. 20%
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<p>B. Find the percentage of a number.</p> <p>1) What is 6% of 12?</p> <p>2) What is 15% of 45?</p> <p>3) Twenty percent of 80 is what number?</p> <p>4) Sixteen percent of 68 is what number?</p> <p>5) What number is 90% of 80?</p> <p>WHAT'S NEW</p> <p>Read and study the following problem:</p> <p>Twenty-five percent of Daisy's 20 potted plants are peppers. How many potted plants are peppers?</p> <p>WHAT IS IT</p> <p>Use the four-step problem-solving approach to help you.</p> <p>Understand</p> <p>What information are given? We know that there are 20 potted plants and 25% of these are peppers.</p> <p>What is asked? We need to find how many potted plants are peppers.</p> <p>This is a part of the total number of potted plants. So, we are looking for the percentage.</p> <p>Plan</p> <p>We can use different methods to solve the problem.</p> <p>Solve</p> <p>Method 1: Using a block model</p> <p>20 potted plants</p> <p>100% → 20</p> <p>25% → 20 ÷ 4 = 5</p>	<p>B. Study the following problems. Show your complete answer on your answer sheet.</p> <p>1) Genoveva answered 98% of a 50-item test correctly. If her friend Nenita made 4 more mistakes than Genoveva, how many points did Nenita get?</p> <p>Genoveva</p> <p>0% 98% 100%</p> <p>Nenita</p> <p>4</p> <p>100% = \square 1% = \square 1% = \square</p> <p>98% = $\square \times \square$ 98% = \square — Genoveva's score $\square - \square$ \square — Nenita's score</p> <p>2) There are 450 pieces of pencils. Twelve percent of these are TW pencils. How many pencils are TW? 12% = 12% of 450 = $\square \times 450$ = \square</p> <p>WHAT I HAVE LEARNED</p> <ul style="list-style-type: none"> Percentage is the actual amount that represents part of a whole. It can be found given the percent (rate) and the whole amount (base). Percentage can be calculated by using the formula, $P = R \times B$. When solving problems that involve finding percentages, the four-step problem-solving approach (Understand, Plan, Solve and Check) can be helpful. <p>WHAT I CAN DO</p>	<p>5) What is 32% of 137?</p> <p>WHAT'S NEW</p> <p>Read and study the following problems:</p> <p>A school chess club has 50 members. Twenty-nine of them are girls. What percent of the chess club are girls?</p> <p>WHAT IS IT</p> <p>Use the four-step problem-solving approach to help you.</p> <p>Understand</p> <p>What information are given? We know that 29 out of 50 members of the school's chess club are girls.</p> <p>Plan</p> <p>We need to find how many percent of the chess club are girls. This means that we are looking for the rate.</p> <p>Solve</p> <p>Method 1: Using a block model</p> <p>100% (50 members)</p> <p>29</p> <p>The total number of members in the chess club is equal to 100%.</p> <p>50 members → 100% 1 member → 100% ÷ 50 = 2% 29 members → 2% × 29 = 58%</p> <p>Method 2: Using equivalent fractions</p> <p>$\frac{29}{50} = \frac{?}{100} = \frac{58}{100} = 58\%$</p> <p>Method 3: Using a formula</p> <p>Rate (R) = $\frac{\text{Percentage (P)}}{\text{Base (B)}} \times 100$</p> <p>$\frac{29}{50} \times 100\% = 58\% \times 100\% = 58\%$</p> <p>Check Each method gives us the same answer.</p> <p>Answer 58% of the chess club are girls.</p>	<p>5) What percent of 120 is 30?</p> <p>6) There are 40 Grade 6 pupils in a class. If 30 are boys, what percent are girls?</p> <p>$100\% = 40$ Grade 6 pupils</p> <p>100% → \square 1% → \square 1% → \square</p> <p>25% → $\square \times \square$ 25% → \square 1% → \square</p> <p>WHAT I CAN DO</p> <p>A. Match column A with the correct answer in column B. Write the letter of the correct answer on your answer sheet.</p> <table border="0"> <tr> <td>Column A</td> <td>Column B</td> </tr> <tr> <td>1) What percent of 64 is 8?</td> <td>A. 10%</td> </tr> <tr> <td>2) Twenty-five is what percent of 250?</td> <td>B. 5%</td> </tr> <tr> <td>3) What percent of 400 is 80?</td> <td>C. 20%</td> </tr> <tr> <td>4) Sixteen is what percent of 40?</td> <td>D. 50%</td> </tr> <tr> <td>5) What percent of 40 is 2?</td> <td>E. 12.5%</td> </tr> <tr> <td></td> <td>F. 40%</td> </tr> </table> <p>B. Solve what is asked. Show your solutions on your answer</p>	Column A	Column B	1) What percent of 64 is 8?	A. 10%	2) Twenty-five is what percent of 250?	B. 5%	3) What percent of 400 is 80?	C. 20%	4) Sixteen is what percent of 40?	D. 50%	5) What percent of 40 is 2?	E. 12.5%		F. 40%	<p>6) Reoux James bought 50 noodles for his <i>sari-sari store</i>. Forty-two of which are beef. What percent of noodles are beef? Use equivalent fraction method to solve this problem.</p> <p>7) Ivy paid ₱880.00 for her purchased groceries. Looking at her Official Receipt, she found out that there was a discount of ₱39.60. What was the percent of discount?</p> <p>8) Christine Joy got a score of 47 out of 50 items in a Mathematics 6 test. What percent of the test did she answer incorrectly?</p> <p>9) What is the shooting percentage of Joshua if he shoots 18 out of 20 free throws? Draw a model to solve this problem.</p> <p>10.) In a Primary school, there are 45 parents. On a rainy day, 36 were present to get the modules. What percent of parents were able to get the modules?</p>
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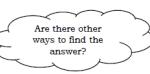
Method 2: Expressing percent to fraction

$$25\% \text{ of potted plants} = 25\% \text{ of } 20$$

$$= \frac{25}{100} \times 20$$

$$= \frac{1}{4} \times 20$$

$$= 5$$



Method 3: Expressing percent as decimal

$$25\% \text{ of potted plants} = 25\% \text{ of } 20$$

$$= 0.25 \times 20$$

$$= 5$$

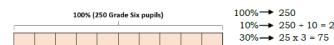
Check Each method gives us the same answer.

Answer 5 potted plants are peppers.

Here are more examples.

In an elementary school, 30% of the 250 Grade Six pupils walk to school. How many Grade Six pupils walk to school?

Method 1: Using a block model



Method 2: Using a formula

$$P = R \times B$$

$$= 30\% \times 250$$

$$= \frac{30}{100} \times 250$$

$$= \frac{3}{10} \times 250$$

$$= 75$$

Answer: 75 Grade Six pupils walk to school.

Two books cost ₱225. The cost of Book A is 80% of the cost of Book B. How much does Book A cost?



$$18 \text{ units} = ₱225$$

$$1 \text{ unit} = 225 \div 18$$

$$1 \text{ unit} = 12.5$$

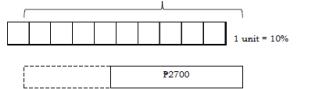
$$\text{Book A} = 8 \text{ units}$$

$$\text{Book A} = 8 \times 12.5$$

$$\text{Book A} = ₱100$$

Harvey's weekly salary is ₱4500. He sets aside 40% of this for his daily expenses and 25% of the remaining as savings. How much does

100% → ₱4500



To answer the second question, you may ask, what is 25% of 2700?

$$100\% \rightarrow ₱2700$$

$$\rightarrow 2700 \div 100$$

$$1\% \rightarrow 27$$

$$25\% \rightarrow 25 \times 27 = 675$$

Answer: ₱675- Harvey's savings

A. Find out the hidden word by filling in the blanks with the letter of your answer. Choose your answer from the choices inside the box.

_____ _____ _____
_____ _____

- _____ is 20% of 20
- What is 90% of 50?
- Eighty percent of 150 is _____.
- The sum of 10% of 60 and 75% of 20 is _____.
- The product of 5% of 40 and 8% of 50 is _____.

A. 50	I. 150	O. 21
B. 30	J. 120	R. 40
E. 4	N. 45	Y. 8

ASSESSMENT

A. Find the percentage in the given problems below. Choose the letter of the correct answer and write it on your answer sheet.

1) What is 5% of 30?

A. 0.15 B. 1.05 C. 1.5 D. 15

2) What is 10% of 60?

A. 10 B. 6 C. 0.6 D. 1.0

3) Fifteen percent of 65 is what number?

A. 9.75 B. 97.5 C. 9.57 D. 95.7

4) Twenty percent of 80 is what number?

A. 0.16 B. 1.6 C. 1.60 D. 16

sheet and label your final answers.

6) What percent of 300 is 75?

7) Nick is a factory worker. He worked 9 months in a year. What percent of the year did he work?

8) David Michael hits 12 out of 15 throws of the pitcher in baseball game. What percent of the throws did he miss?

9) In a basketball game, Rex shoots 54 goals out of 72 shots. What is the percent of goals?

10) On October 27, 2020 data on COVID-19, out of 54 confirmed cases, there were 49 recoveries. How many percent were recovered from COVID-19? Round your answer to the nearest tenths.

		<p>5) What number is 25% of 130? A. 32.5 B. 35.2 C. 23.5 D. 25.3</p> <p>B. Solve what is asked. Show your solutions on your answer sheet and label your final answers.</p> <p>6) At Alcona Resort, 8% of the visitors are foreigners. If there are 225 visitors at the resort, how many visitors are foreigners?</p> <p>7) Vic saves 9% of his salary each month. If Vic's salary is ₦16 000, how much is Vic's monthly savings?</p> <p>8) In a fast food outlet, there are 50 service crew. Ninety-two percent of crew are men and the rest are women. How many service crew in a fast food outlet are men?</p> <p>9) Fifteen percent of the 60 participants who attended the Mathematics Investigation Training were males and the rest are females. How many participants were females?</p> <p>10) Vangie is a rice seller. She earns a profit of 15% for every kilogram at ₦45. She was able to sell 55 kilograms of rice. How much profit did she earn?</p>		
V. REMARKS				
VI. REFLECTIONS	Reflect on your teaching and assess yourself as a teacher. Think about your students' progress this week. What works? What else needs to be done to help the students learn? Identify what help your instructional supervisors can provide for you so when you meet them, you can ask them relevant questions.			

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?	