

Name: _____ Section: _____
Date : _____ Score: _____

FINDING THE RATE, PERCENTAGE AND BASE

- A percentage is the amount that represents a part of a whole.
- To find the percentage of a number, change it to decimal or fraction and then multiply it by the given number or multiply the percent or rate (R) by the given number or base (B)
- Base is the number that represents the whole or entire amount.
- In finding the base (B), just divide the percentage by the rate.
- Rate is the number compared to 100. It usually has the percent sign (%) or the word "percent" with it.
- To find the percent or rate, divide the percentage by the given number or base or rewrite the number as a fraction then change the denominator to 100. Simplify and write the percent symbol (%).

➤ To solve for the base divide the percentage by the rate. Use the formula $B = \frac{P}{R}$ where R is expressed as decimal.

❖ To find the percentage of a number, change the percentage to a decimal and multiply it by the given number. Use this formula,

$$P = B \times R$$

Where, P = percentage

B = base

R = rate

To find the rate:

$$R = \frac{P}{B} = 100\%$$

Where, P = percentage

B = base

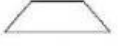
R = rate

Activity 1 (Monday)

Direction: Solve for the percentage.

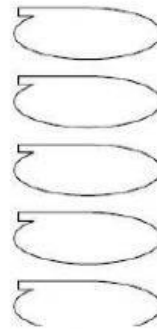
1. 20% of 80 = 
2. 6% of 150 = 
3. 30% of 200 = 
4. 65% of 400 = 
5. 50% of 125 = 

Direction: Find the rate.

- 1.) What percent of 200 is 50? 
- 2.) What percent of 50 is 40? 
- 3.) What percent of 10 is 6? 
- 4.) 200 is what percent of 200? 
- 5.) What percent of 800 is 200? 

Find the base.

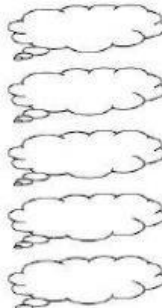
1. 28 is 4% of what number?
2. 25% of what number is 100?
3. 69 is 75% of what number?
4. 15% of what number is 9?
5. 12% of what number is 60?



Activity 2 (Tuesday)

Solve for the base.

1. 20% of what number is 20?
2. 36% of what number is 36?
3. 20% of what number is 10?
4. 10% of what number is 20?
5. 5% of what number is 30?



- 1.) What percent of 200 is 50? 
- 2.) What percent of 50 is 40? 
- 3.) What percent of 10 is 6? 
- 4.) 200 is what percent of 200? 
- 5.) What percent of 800 is 200? 

Direction: Compute for the percentage.

- 1.) 20% of 150 = 
- 2.) 25% of 180 = 
- 3.) 10% of 80 = 
- 4.) 60% of 200 = 
- 5.) 2% of 60 = 

Activity 3 (Wednesday)

DIRECTIONS : Solve the following problems below using the steps in solving problems involving proportions. Write your answers on a separate piece of paper.

1. There are 20 Grade 6 pupils at Medina Elementary School. On a stormy day, 10% of the pupils are absent. How many pupils are absent?
2. Ricardo got 90% of a 20-item test in Math. How many items did he answer correctly?

3. In a school of 680 Grade 6 pupils, 646 graduated. What percent of the enrolment graduated?
4. 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?
5. There are 40 pupils in a class. Seventy-five percent of them are present. How many are present?

Activity 4 (Thursday)

DIRECTIONS : Solve the following problems below using the steps in solving problems involving proportions. Write your answers on a separate piece of paper.

1. Rhoda's allowance for the day is 250. She spends 80% of it and saves the rest. How much does she spend?
2. 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?
3. In a class of 50 pupils, 24 are boys. What percent of the class are boys?
4. A vendor had 200 balloons for sale. If he sold 125 of them, what percent remains unsold?
5. 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?

Quarter 2, Week 3 Competencies:

1. Finds the percentage or rate or percent in a given problem;

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2. Solves routine and non-routine problems involving finding the percentage, rate and base using appropriate strategies and tools

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References:

DLP Gr. 6 Module 46: Finding the percentage when the rate and base are given

Math 6 DLP 47: Finding the rate or percent when the percentage and base are given

Math 6 DLP 48: Finding the base when the percentage and rate are given