Lesson Objective: Express a fraction as a decimal and as a percent.

Vocabulary Box

equivalent fractions – Fractions that simplify to the same number. Examples: $\frac{1}{2}, \frac{5}{10}$, and $\frac{3}{6}$; $\frac{25}{100}$ and $\frac{1}{4}$.

Guided Practice

Directions: Complete the following practice problems. Your teacher will review the answers. Make sure that you show all your work.

I. Write each fraction as a decimal and as a percent. You may work with a partner.

1. $\frac{18}{100}$

2. $\frac{5}{8}$

3. $\frac{19}{20}$

4. $\frac{4}{100}$

5. $\frac{9}{24}$

II. Write each fraction as a decimal and as a percent. Please work independently.

1. $\frac{3}{100}$

2. $\frac{875}{1000}$

3. $\frac{17}{25}$

Summary/Closure

A. Vocabulary Words

Define **equivalent fractions** and give three examples.

B. Summarize What We Learned Today

Write three sample problems. First, write a sample problem changing a fraction into a decimal, and explain the procedure. Then, write a sample problem changing that same decimal into a percent, and explain the procedure. Finally, write a third problem changing a different percent into a decimal, and explain the procedure.

lesson twenty-three - student resource sheet

Lesson Objective: Express a fraction as a decimal and as a percent.

Vocabulary Box

equivalent fractions – Fractions that simplify to the same number. Examples: $\frac{1}{2}$, $\frac{5}{10}$, and $\frac{3}{6}$; $\frac{25}{100}$ and $\frac{1}{4}$.

Independent Practice

Directions: Complete the following practice problems on your own by filling in the chart. The first problem is done for you. Your teacher will review the answers. Use the space below the chart to show all of your work.

	Fraction	Simplest Form	Decimal	Percent
1.	$\frac{50}{100}$	$\frac{1}{2}$	0.5	50%
2.	$\frac{4}{100}$			
3.	$\frac{875}{1{,}000}$			
4.	$\frac{7}{100}$			
5.	$\frac{3}{5}$			
6.	$\frac{18}{24}$			
7.	$\frac{15}{4}$			

BONUS?

Directions: Find the decimal and percent for each of these fractions:

1. $\frac{99}{400}$

2. $\frac{236}{50}$

3. $\frac{89}{1250}$

Problem Solving

Directions: Use problem-solving strategies to answer the word problems below. Write all answers in simplest form. Remember to write each answer in a complete sentence using words from the problem.

1. Two-fifths of Sheryl's family eats dessert. What percent of Sheryl's family eats dessert?

2. It has rained 6 out of the past 8 years on the day of the community picnic. What percentage of years has it rained on picnic day for the past 8 years?

3. Carlos earned a 0.925 on his biology test. What was his grade percentage?

4. One-fourth of Shameeka's friends are in sixth grade. What percent of her friends are not in sixth grade?

5. Meteorologists recorded last winter's snowfall in Michigan as an average of 9 out 100 days, or $\frac{9}{100}$ days. What is this snowfall average in decimal value?

Directions: Use what you know about fractions, decimals, and percents to answer each question.

1. What is the decimal value of $\frac{19}{20}$?

2. Sequoia got $\frac{14}{20}$, or 14 out of 20 questions correct, on her test. On the next test, she got $\frac{28}{40}$, or 28 out of 40 correct. What was the percent value of each test score?

3. Use the vocabulary term from today's lesson to explain why Sequoia's test scores had the same percent value.

lesson twenty-four - student resource sheet

Lesson Objective: Evaluate numerical expressions, using the order of operations.

Vocabulary Box

exponent – A number that indicates the operation of repeated multiplication.
Example: In $4^3 = 4 \times 4 \times 4 = 64$, 3 is the exponent.

base – A number multiplied by itself the number of times shown by an exponent.
Example: In $4^3 = 4 \times 4 \times 4 = 64$, 4 is the base.

power – A number produced by raising a base to an exponent. Example:
In $4^3 = 4 \times 4 \times 4 = 64$, 64 is the third power of 4.

Guided Practice

PEMDAS

P_____

E _____

M/D _____

A/S _____

Directions: Complete the following practice problems, using the order of operations, or PEMDAS. Your teacher will review the answers. Show all your work.

I. Work with a partner to solve each problem.

1. $4 + (2 \times 3)$

2. $8 + 12 \div 3$

3. $6 + 4^3$

4. $20-(11-3^2)\times 5$

5. $40-5\times 6$

II. Work independently to solve each problem.

1. $3^3-5\div 5$

2. $7\times(6-2)$

3. $5^3-5^2\div 5$

Summary/Closure

A. Vocabulary Words

Directions: Identify the parts of the given problem.

$$6^4 = 1{,}296$$

exponent:

base:

the fourth power of 6:

B. Summarize What We Learned Today

Write a fun sentence such as, “Please excuse my dear Aunt Sally,” to help remember the device PEMDAS! Then underline the first letter of each word and write the operation that it represents.