Understanding Fractional Parts and Comparing Sizes

Introduction to Fractions
Read the following introduction to fractions and answer the questions that follow:
Understanding fractions is a critical component of mathematics education, as it lays the groundwork for more complex mathematical concepts. This lesson plan is designed to introduce 8-year-old students to the concept of fractional parts and comparing sizes, focusing on developing their understanding of fractions as a way to represent part of a whole.
1. What is a fraction?
2. Why are fractions important in mathematics?

What are Fractions?

Read the following explanation of fractions and complete the activities:

A fraction is a way to show part of a whole. It consists of a numerator (the top number) and a denominator (the bottom number), which represents the total number of equal parts the whole is divided into.

Activity:

Match the following fractions to their equivalent fractions:

Fraction	Equivalent Fraction
1/2	
1/4	Page
3/4	

Identify the fraction of the shaded part in each picture:				
Activity:				
Look at the following pictures and write the fraction of the shaded part:				
Picture	Fraction			
Picture 1				
Picture 2				
Picture 3				
Fraction Comparison				
Compare the sizes of the following fractions:				
1. 1/2 and 1/4:				
2. 3/4 and 2/3:				
3. 1/6 and 1/8:				

Real-Life Fractions

	Picture	Fraction
Picture 1		
Picture 2		
Picture 3		
re the following		
ve the following	of a cake and I eat 1/4 of it, w	nat fraction of the cake is left?
	of a cake and I eat 1/4 of it, w	nat fraction of the cake is left?
	of a cake and I eat 1/4 of it, w	nat fraction of the cake is left?

Creating Fractions

Assessment

Complete the following assessment activities:

- 1. Complete the activities and word problems.
- 2. Draw a picture to represent a fraction of your choice.
- 3. Write a short paragraph explaining what you learned about fractions.

Extension

Choose one of the following extension activities:

Activity:

- 1. Create a fraction chart to show the relationship between different fractions.
- 2. Design a recipe that involves measuring ingredients using fractions.
- 3. Create a piece of art that incorporates fractions.

[Space for extension activity]

Glossary	
Define the following terms:	
 Fraction: Numerator: Denominator: Equivalent Fractions: 	

Answer Key

Check your answers with the following answer key:

Answer Key:

Activity 1:

- 1/2 = 2/4
- 1/4 = 2/8
- 3/4 = 6/8

Activity 2:

- Picture 1: 1/2
- Picture 2: 1/4
- Picture 3: 3/4

Activity 3:

- 1/2 and 1/4: 1/2 is larger
- 3/4 and 2/3: 3/4 is larger
- 1/6 and 1/8: 1/6 is larger

