Introduction to Fra	ctions
	expressing a part of a whole. It consists of a numerator (the top number) and a tom number). For example, the fraction 1/2 represents one equal part out of a total of
What are Fractions	? ?
Fractions can be used	d to represent a variety of real-world scenarios, such as measuring ingredients for a the ratio of elements in a compound.
recipe or calculating t 1. What is the nur	to represent a variety of real-world scenarios, such as measuring ingredients for a
Fractions can be used recipe or calculating t	I to represent a variety of real-world scenarios, such as measuring ingredients for a the ratio of elements in a compound. nerator and denominator in the fraction 3/4?
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Equivalent Ratios

Equivalent ratios are ratios that have the same value, but with different numbers. For example, the ratios 1:2 and 2:4 are equivalent, because they both represent the same relationship between the numbers.

Activity:

Match the equivalent ratios:

Ratio 1	Ratio 2
1:2	2:4
2:3	4:6

Simplifying Fractions

Simplifying fractions is an important concept in mathematics. To simplify a fraction, we need to find the greatest common divisor (GCD) of the numerator and denominator, and divide both numbers by the GCD.

- 1. Simplify the fraction 4/8
- 2. Simplify the fraction 6/12

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Real-world Applications
Fractions and equivalent ratios are used in many real-world scenarios, such as cooking, science, finance, and music.
Activity: Solve the following problems: 1. A recipe calls for 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need? 2. A bookshelf has 5 shelves, and each shelf can hold 3/4 of a meter of books. If the bookshelf is currently empty, how much space is available for books?
Fraction Art
Create a piece of art that incorporates fractions. Use different colors and shapes to represent different fractions.
[Space for creative work]

Questions
 Answer the following questions: 1. What is the simplified form of the fraction 6/8? 2. Identify the equivalent ratio of 2:4 3. A group of friends want to share some candy equally. If they have 3/4 of a bag of candy and there are 4 friends, how much candy will each friend get?
Conclusion In conclusion, fractions and equivalent ratios are important concepts in mathematics that are used in many
real-world scenarios. By practicing and applying these concepts, you will develop a deeper understanding of mathematical relationships and improve your problem-solving skills. Reflection: 1. What did you learn about fractions and equivalent ratios? 2. How can you apply these concepts in real-world scenarios?

Differentiated Activities
For mixed-ability groups, provide the following activities:
Activity 1: For students who need extra support: 1. Provide additional examples of fractions and equivalent ratios 2. Use visual aids to help students understand the concepts
Activity 2: For students who need a challenge: 1. Provide more complex problems involving fractions and equivalent ratios 2. Ask students to create their own real-world scenarios involving fractions and equivalent ratios

Answer Key	
Check your answers with the following answer k	key:
1. 1. 3/4 2. 2. 1:2 3. 3. 3/16 of a bag	

