earn how to conver numerous real-world	th adventure! In this worksheet, we will explore the exciting world of decimal fractions and them to base 10 and back. This is a fundamental concept in mathematics that has displications. By the end of this worksheet, you will be able to convert decimal fractions with confidence and accuracy.
What are Decima	l Fractions? (10 minutes)
	re a way of representing part of a whole. They are used to express quantities that are less ole, 0.5 is a decimal fraction that represents half of a whole.
man one. I of examp	

	erting Decimal Fractions to Base 10 (15 minutes)	
	overt a decimal fraction to base 10, we divide the numerator by the denominator. For example, to transfer to 3/4 to base 10, we divide 3 by 4, which equals 0.75.	
Exe	rcise 1: Converting Decimal Fractions to Base 10	
	1. 1/2 = 2. 3/4 =	
3	3. 2/5 =	
L		

## Converting Base 10 to Decimal Fractions (15 minutes)

To convert a base 10 number to a decimal fraction, we express the number as a fraction with a denominator of the form 10^n, where n is the number of decimal places. For example, to convert 0.25 to a decimal fraction, we express it as 25/100, which simplifies to 1/4.

Exercise 2: Converting Base 10 to Decimal Fractions
1. 0.5 = 2. 0.75 = 3. 0.25 =

nswer Key						
<ul><li>2. Y</li><li>4. Practice I</li><li>1. 2</li><li>2. 0</li></ul>	= 0.5 = 0.75 = 0.4 2: = 1/2 5 = 3/4 5 = 1/4 3: bu need to fill thou need to add	0.375 liters o	f water to fil	I the tank to 3	8/4 of its capac	

In conclusion, converting decimal fractions to base 10 and back is a fundamental concept in mathematics that has numerous real-world applications. By practicing the exercises in this worksheet, you have developed a deep understanding of this concept and can apply it to solve problems in a variety of contexts. Remember to always check your work and use visual aids to help you understand the concept. Happy math adventuring!