Introduction to Fractions and Decimals
Read the following introduction and answer the questions that follow:
Converting between fractions and decimals is a fundamental skill in mathematics that is essential for a wide range of applications. This worksheet is designed to engage 11-year-old students in the process of converting between fractions and decimals, utilizing interactive infographics and hands-on exercises to deepen their understanding of these mathematical concepts.
1. What is the main purpose of this worksheet?
2. What age group is this worksheet designed for?
Understanding Fractions and Decimals
Read the following explanations and complete the tasks:
A fraction is a way to show part of a whole. For example, 1/2 is a fraction that represents one equal part out of two. A decimal is a way to show part of a whole using a point. For example, 0.5 is a decimal that represents one half.
1. Write a fraction to represent one quarter:
Page of 7
2. Write a decimal to represent three quarters:

Converting Fractions to Decimals
Complete the following conversions:
1. 1/2 =
2. 3/4 =
3. 2/5 =
Converting Decimals to Fractions
Complete the following conversions:
1. 0.5 =
2. 0.25 =
Z. U.Z5 =
3. 0.75 =

	pplications
ead the follow	ving scenario and answer the questions:
recipe calls f ecimal form?	or 3/4 cup of sugar. If you want to make half the recipe, how much sugar will you need in
1. Write the	fraction of sugar needed for half the recipe:
2. Convert t	he fraction to a decimal:
roup Activit	y: Visual Aid
roup Activit	y: Visual Aid
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction
	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.
Create a visi	ual aid (e.g., diagram, chart, or graph) that illustrates the conversion between a fraction al.

Assessment: Multiple Choice Questions
Choose the correct answer for each question:
1. What is the decimal equivalent of 1/2? o A) 0.1 o B) 0.5 o C) 1.0 o D) 2.0
2. What is the fraction equivalent of 0.25?
Assessment: Short Answer Questions
Answer the following questions in complete sentences:
1. Explain the difference between a fraction and a decimal.
Provide an example of a real-world scenario where fractions and decimals are used interchangeably.
Page of 7

Indiv	idual Reflection:
1.	What was the most surprising thing you learned about converting between fractions and decimals?
2.	How will this learning change your approach to mathematical problems in the future?
	g
tens	sion Activities
mple	rte the following activities to further your understanding:
mple	onvert the following complex fractions and decimals: • 2 3/4 =
mple	onvert the following complex fractions and decimals:
mple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 =
mple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 =
mple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 =
nmple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 = 3 3/4 =
nmple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 =
nmple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 = 3 3/4 =
nmple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 = 3 3/4 =
nmple	onvert the following complex fractions and decimals: 2 3/4 = 1 1/2 = 3 3/4 =

oss	sary
efine	e the following terms:
1.	Fraction:
2.	Decimal:
3.	Numerator:
4.	Denominator: