



مؤسسة الإمارات
للتعليم المدرسي
EMIRATES SCHOOLS
ESTABLISHMENT



SUBJECT – MATHEMATICS

GRADE – 6

Chapter 2 – Lesson 3

Relate Fractions, Decimals, and Percents



Objective of Session

To understand the relation between Fractions, Decimals and Percents



Vocabulary:

❖ Fractions

❖ Decimals

❖ Percents



Let's Start..... Instructions



- ❖ Complete the word wall activity
- ❖ 3 Minutes to complete the activity
- ❖ Post the scores on the chat

<https://wordwall.net/resource/14851658/percentage-match-up>



INTRODUCTION

As a fraction, $35\% = \frac{35}{100}$, or $\frac{7}{20}$.

As a decimal, $35\% = 0.35$.

Learn Relate Percents to Fractions and Decimals

By definition, a percent is a ratio that compares a number to 100. The percent 35% compares 35 to 100 as the ratio 35 : 100. In fraction form, this ratio is $\frac{35}{100}$ which means *thirty-five hundredths*. You can use the definition of percent, equivalent ratios, and place-value reasoning to write percents as both fractions and decimals.

Write 35% as a fraction.

$$35\% = \frac{35}{100} \quad \text{Definition of percent}$$

$$\frac{35}{100} = \frac{7}{20}$$

Write 35% as a decimal.

$$35\% = \frac{35}{100} = 0.35$$



Write 18% as a decimal and as a fraction in simplest form.

Chapter 2, Lesson 3- Relate Fractions, Decimals, and Percents



Write each percent as a fraction in simplest form and as a decimal. (Example 1)

1. 45%

2. 72%

3. 80%

Chapter 2, Lesson 3- Relate Fractions, Decimals, and Percents



In a recent survey, 22% of E-mail users claimed to spend less time using E-mail because of spam. What fraction of E-mail users is this? What decimal is this?

Guided Practice

<https://www.liveworksheets.com/hp1926970sn>



Learn Relate Fractions to Percents and Decimals

You can also write fractions as percents and decimals.

Write $\frac{3}{20}$ as a percent.

$$\frac{3}{20} = \frac{\quad}{100}$$

$$\frac{3}{20} = \frac{15}{100}$$

As a percent, $\frac{3}{20} = 15\%$.

Write $\frac{3}{20}$ as a decimal.

$$\frac{3}{20} = \frac{15}{100} = 0.15$$

INTRODUCTION

As a percent, $\frac{3}{20} = 15\%$.

As a decimal, $\frac{3}{20} = 0.15$.



Independent Practice

Write each fraction as a percent and as a decimal. (Examples 2 and 3)

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

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

8 Is not a factor of 100



Write $\frac{4}{16}$ as a percent and as a decimal.

16 Is not a factor of 100, but 4 is a factor

**Guided
Practice**



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Let's Start..... Instructions



- ❖ Complete the Liveworksheet
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<https://www.liveworksheets.com/mp1239166ze>



Relate Decimals to Percents and Fractions

Place Value Chart (Decimals)

Hundreds	Tens	Ones	.	Tenths	Hundredths	Thousandths
100	10	1	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$

Introduction

0.7

0.25

0.125



Write each decimal as a percent and as a fraction in simplest form. (Example 4)

7. 0.89

8. 0.82

9. 0.65

**Independent
Practice**



Let's Start..... Instructions



- ❖ Complete the word wall activity
- ❖ 3 Minutes to complete the activity
- ❖ Post the scores on the chat

<https://wordwall.net/resource/1365660/fractions-and-percentages>



Write Mixed Numbers as Percents

$$3\frac{9}{13}$$



$$5\frac{1}{3}$$



Fractions



Write Mixed Numbers as Percents

$$2\frac{3}{4} = \frac{(4 \times 2) + 3}{4} = \frac{8 + 3}{4} = \frac{11}{4}$$

Mixed Number

Improper Fraction

INTRODUCTION



Independent Practice

Write the fraction below as Percent and as a decimal

$$1 \frac{3}{4}$$



When blue whales feed, they can take in $1\frac{1}{25}$ times their body weight in food and water in one single gulp. What percent of their body weight is this?

**Independent
Practice**

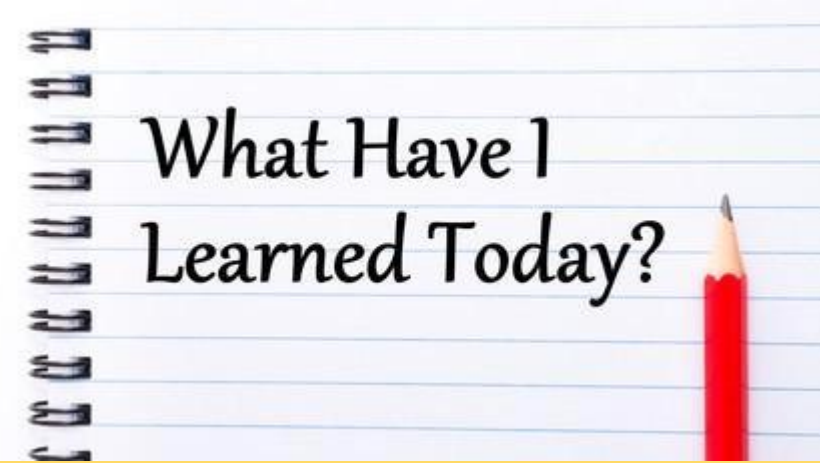


Independent Practice

10. About 0.41 of Hawaii's total area is water.
Write 0.41 as a fraction and as a percent.

11. Over the course of the basketball season,
Zane's free throw average went up by 30%.
Write 30% as a fraction and as a decimal.

What we learned today



percentage

fraction

decimal

30%

$\frac{3}{10}$

0.3

to go from a fraction to a percentage
we can **convert to a decimal** first

$\frac{3}{5} \rightarrow 0.6 \rightarrow 60\%$



Plenary Activity

<https://www.liveworksheets.com/vt2197374ut>

A white, hand-drawn style thought bubble sticker is centered on a brown corkboard. The bubble has a small tail pointing downwards. Inside the bubble, the words "Thank" and "you!!" are written in a black, casual, handwritten font, stacked vertically.

Thank
you!!