

RAFT: Fractions, Decimals, and Percents

Overview: These RAFT assignments give students an opportunity to show their knowledge of the interrelationships among common fractions, decimal fractions, and percents. Students may complete their assigned tasks either individually or in similar-readiness pairs. The tasks are listed in order of difficulty with the first being the most difficult.

Standards:

- Describe equivalence relationships among common fractions, decimals, and percents
- Develop meaning for percents
- Convert fractions to decimals to percents and vice-versa

Objectives:

The students will **KNOW**

- The relationships that equate fractions, decimals, and percents.

The students will **UNDERSTAND THAT**

- A given mathematical situation or problem would be better served/solved by knowing whether to express amounts as fractions, decimals, or percents.
- Any fractional quantity may be expressed as a common fraction, a decimal fraction, or a percent.
- All three representations of an amount – fraction, decimal, and percent – have their own unique use in the real world.

The students will **BE ABLE TO**

- Compare and order fractions, decimals, and percents.
- Convert an amount into its fractional, decimal, or percentage equivalence.

Basis for Differentiation: Student readiness with regard to:

- the understanding of equivalence relationships among common fractions, decimals, and percents
- abstractness

Math

Fractions, Decimals, and Percents

ROLE	AUDIENCE	FORMAT	TOPIC
Newspaper Reporter	Readers of the newspaper	Questionnaire (of real-life number values)	In the Following Situations, Would You Choose a Fraction, Decimal, or Percentage to Discuss These Amounts?
Common Fractions	Decimals	Letter of complaint	In Today's Technological World, I Get No Respect, Thanks to You
Percents	Humans	Advertisement	Just Look at All the Ways You Use Me in Your Lives!
Math Teacher	Students in a math class	Poster	Methods to Change Fractions to Decimals to Percents and Vice-Versa