

05 Percents

Content Area: **Mathematics**
Course(s):
Time Period: **Week1**
Length: **1 Week**
Status: **Published**

Stage 1: Desired Results

Unit Overview/ Rationale

Percentages

Standards & Indicators

Common Core: Mathematics, Common Core: Grade 8, Mathematical Practice

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

MA.7.7.EE.A.2

Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

MA.7.7.RP.A.3

Use proportional relationships to solve multistep ratio and percent problems.

Big Ideas - Students will understand that...

-Percents, fractions, and decimals are related.

-Percentages are part of everyday life through discounts, markups, sales tax, tip, commission, etc.

Essential Questions - What provocative questions will foster inquiry and transfer of learning

-What are percentages?

-How do you solve a problem involving percentages?

-What are discounts, markups, sales tax, tips, commission, , interest, etc.?

Content - Students will know...

Key vocabulary:

commission, discount, markup, percent, percent of change, percent error, principal, simple interest

Skills - Students will be able to...

-Compare, order, and convert between fractions, decimals, and percents.

-Solve percent problems using equations and proportions.

-Use percent to solve real-world problems.

Stage 2: Assessment Evidence

Assessment

Stage 3: Learning Plan

Learning Activities

Resources

Pearson

Algebra 1

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Chapter 5