

Grade 6 Lesson  
Bits and Pieces I  
Investigation 4.2 Making Smaller Parts

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Explore Learning – Ordering Percents, Fractions, and Decimals Gizmo

**Lesson Objectives:**

To represent fractions with denominators of ten and powers of 10 as decimal numbers and percents

To visualize the representation of decimal numbers using a 10-by-10 grid area model

**State Standards:**

6.N.7

**Materials:**

CMP Bits and Pieces I student edition

CMP Bits and Pieces I Teacher edition

Computer with internet access

Infocus projector

White board and markers

**Major Mathematics Ideas:**

Convert fraction to decimal to percent and vice versa

**Key Questions:**

Can you show 0.3 and 0.5 on a hundredths grid? Why or why not?

Can you show me 0.65 and 0.40 on a tenths grid? Why or why not?

What would a hundredths grid look like if each square of the grid were divided into eight equal parts? How many parts would the new grid have?

What is the fraction name for the smallest part of this new grid?

**Vocabulary:**

Decimal

Fraction

Percent

Numerator

Denominator

Place value

Standard form

Word form

**Lesson Plan:**