

Preview Concepts for 4th CCGPS

Unit 1:

- Utilize the properties and patterns of multiplication (including the commutative, associative, and identity properties)

<http://www.ixl.com/math/grade-3/properties-of-multiplication>

<http://www.ixl.com/math/grade-3/solve-using-properties-of-multiplication>

- Fluently multiply within 100
- Fluently divide within 100
- Fluently add and subtract within 1000 using strategies

<http://www.ixl.com/math/grade-3/relate-multiplication-and-division>

Unit 2

- Identify and give multiple representations for the fractional parts of a whole (area model) or of a set, using halves, thirds, fourths, sixths, eighths, tenths and twelfths.
- Recognize and represent that the denominator determines the number of equally sized pieces that make up a whole.

<http://www.ixl.com/math/grade-5/add-and-subtract-fractions-with-like-denominators>

<http://www.ixl.com/math/grade-5/add-and-subtract-mixed-numbers-with-like-denominators>

- Recognize and represent that the numerator determines how many pieces of the whole are being referred to in the fraction.

<http://www.ixl.com/math/grade-5/equivalent-fractions>

<http://www.khanacademy.org/video/equivalent-fractions?playlist=Arithmetic> (Class Demonstration)

Unit 3

- Identify and give multiple representations for the fractional parts of a whole (area model) or of a set, using halves, thirds, fourths, sixths, eighths, tenths and twelfths.
- Recognize and represent that the denominator determines the number of equally sized pieces that make up a whole.
- Recognize and represent that the numerator determines how many pieces of the whole are being referred to in the fraction.
- Compare fractions with denominators of 2, 3, 4, 6, 10, or 12 using concrete and pictorial models.
- Understand repeated addition is one way to model multiplication, repeated subtraction is one way to model division.
- Recognize that a fraction can be represented in multiple ways by using equivalent fractions (i.e. one half can equal two fourths, three sixths, etc.)

<http://www.ixl.com/math/grade-3/convert-between-decimals-and-fractions>

<http://www.ixl.com/math/grade-3/fraction-review>

<http://www.ixl.com/math/grade-3/add-and-subtract-fractions-with-like-denominators>

http://www.mathplayground.com/fractions_mixed.html (Individual)