Module 5

Grade 7

* + **7.N5 Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially and symbolically (limited to positive sums and differences).**
    - [Add and subtract fractions with like denominators (7-G.1)](https://ca.ixl.com/math/grade-7/add-and-subtract-fractions-with-like-denominators)
    - [Add and subtract fractions with like denominators: word problems (7-G.2)](https://ca.ixl.com/math/grade-7/add-and-subtract-fractions-with-like-denominators-word-problems)
    - [Add fractions with unlike denominators using models (7-G.3)](https://ca.ixl.com/math/grade-7/add-fractions-with-unlike-denominators-using-models)
    - [Subtract fractions with unlike denominators using models (7-G.4)](https://ca.ixl.com/math/grade-7/subtract-fractions-with-unlike-denominators-using-models)
    - [Add fractions with unlike denominators (7-G.5)](https://ca.ixl.com/math/grade-7/add-fractions-with-unlike-denominators)
    - [Subtract fractions with unlike denominators (7-G.6)](https://ca.ixl.com/math/grade-7/subtract-fractions-with-unlike-denominators)
    - [Add and subtract fractions with unlike denominators: word problems (7-G.7)](https://ca.ixl.com/math/grade-7/add-and-subtract-fractions-with-unlike-denominators-word-problems)
    - [Add and subtract mixed numbers (7-G.8)](https://ca.ixl.com/math/grade-7/add-and-subtract-mixed-numbers)
    - [Add and subtract mixed numbers: word problems (7-G.9)](https://ca.ixl.com/math/grade-7/add-and-subtract-mixed-numbers-word-problems)
    - [Inequalities with addition and subtraction of fractions and mixed numbers (7-G.10)](https://ca.ixl.com/math/grade-7/inequalities-with-addition-and-subtraction-of-fractions-and-mixed-numbers)
    - [Estimate sums and differences of mixed numbers (7-G.11)](https://ca.ixl.com/math/grade-7/estimate-sums-and-differences-of-mixed-numbers)
  + Grade 8
  + **8.N3 Demonstrate an understanding of percents greater than or equal to 0%.**
    - [Convert between percents, fractions and decimals (8-K.1)](https://ca.ixl.com/math/grade-8/convert-between-percents-fractions-and-decimals)
    - [Compare percents to fractions and decimals (8-K.2)](https://ca.ixl.com/math/grade-8/compare-percents-to-fractions-and-decimals)
    - [Find what percent one number is of another (8-K.3)](https://ca.ixl.com/math/grade-8/find-what-percent-one-number-is-of-another)
    - [Find what percent one number is of another: word problems (8-K.4)](https://ca.ixl.com/math/grade-8/find-what-percent-one-number-is-of-another-word-problems)
    - [Estimate percents of numbers (8-K.5)](https://ca.ixl.com/math/grade-8/estimate-percents-of-numbers)
    - [Percents of numbers and money amounts (8-K.6)](https://ca.ixl.com/math/grade-8/percents-of-numbers-and-money-amounts)
    - [Percents of numbers: word problems (8-K.7)](https://ca.ixl.com/math/grade-8/percents-of-numbers-word-problems)
    - [Compare percents of numbers (8-K.8)](https://ca.ixl.com/math/grade-8/compare-percents-of-numbers)
    - [Solve percent equations (8-K.9)](https://ca.ixl.com/math/grade-8/solve-percent-equations)
    - [Percent of change (8-K.10)](https://ca.ixl.com/math/grade-8/percent-of-change)
    - [Percent of change: word problems (8-K.11)](https://ca.ixl.com/math/grade-8/percent-of-change-word-problems)
  + **8.N4 Demonstrate an understanding of ratio and rate.**
    - [Understanding ratios (8-I.1)](https://ca.ixl.com/math/grade-8/understanding-ratios)
    - [Identify equivalent ratios (8-I.2)](https://ca.ixl.com/math/grade-8/identify-equivalent-ratios)
    - [Write an equivalent ratio (8-I.3)](https://ca.ixl.com/math/grade-8/write-an-equivalent-ratio)
    - [Equivalent ratios: word problems (8-I.4)](https://ca.ixl.com/math/grade-8/equivalent-ratios-word-problems)
    - [Unit rates (8-I.5)](https://ca.ixl.com/math/grade-8/unit-rates)
    - [Compare ratios: word problems (8-I.6)](https://ca.ixl.com/math/grade-8/compare-ratios-word-problems)
    - [Rate of change (8-Y.2)](https://ca.ixl.com/math/grade-8/rate-of-change)
    - [Constant rate of change (8-Y.3)](https://ca.ixl.com/math/grade-8/constant-rate-of-change)
  + **8.N5 Solve problems that involve rates, ratios and proportional reasoning.**
    - [Identify equivalent ratios (8-I.2)](https://ca.ixl.com/math/grade-8/identify-equivalent-ratios)
    - [Write an equivalent ratio (8-I.3)](https://ca.ixl.com/math/grade-8/write-an-equivalent-ratio)
    - [Equivalent ratios: word problems (8-I.4)](https://ca.ixl.com/math/grade-8/equivalent-ratios-word-problems)
    - [Compare ratios: word problems (8-I.6)](https://ca.ixl.com/math/grade-8/compare-ratios-word-problems)
    - [Solve proportions: word problems (8-I.7)](https://ca.ixl.com/math/grade-8/solve-proportions-word-problems)
    - [Do the ratios form a proportion? (8-I.8)](https://ca.ixl.com/math/grade-8/do-the-ratios-form-a-proportion)
    - [Do the ratios form a proportion: word problems (8-I.9)](https://ca.ixl.com/math/grade-8/do-the-ratios-form-a-proportion-word-problems)
    - [Solve proportions (8-I.10)](https://ca.ixl.com/math/grade-8/solve-proportions)
    - [Estimate population size using proportions (8-I.11)](https://ca.ixl.com/math/grade-8/estimate-population-size-using-proportions)
    - [Scale drawings: word problems (8-I.12)](https://ca.ixl.com/math/grade-8/scale-drawings-word-problems)
    - [Find the constant of proportionality from a table (8-J.1)](https://ca.ixl.com/math/grade-8/find-the-constant-of-proportionality-from-a-table)
    - [Write equations for proportional relationships from tables (8-J.2)](https://ca.ixl.com/math/grade-8/write-equations-for-proportional-relationships-from-tables)
    - [Identify proportional relationships by graphing (8-J.3)](https://ca.ixl.com/math/grade-8/identify-proportional-relationships-by-graphing)
    - [Find the constant of proportionality from a graph (8-J.4)](https://ca.ixl.com/math/grade-8/find-the-constant-of-proportionality-from-a-graph)
    - [Write equations for proportional relationships from graphs (8-J.5)](https://ca.ixl.com/math/grade-8/write-equations-for-proportional-relationships-from-graphs)
    - [Identify proportional relationships (8-J.6)](https://ca.ixl.com/math/grade-8/identify-proportional-relationships)
    - [Graph proportional relationships (8-J.7)](https://ca.ixl.com/math/grade-8/graph-proportional-relationships-I)
    - [Interpret graphs of proportional relationships (8-J.8)](https://ca.ixl.com/math/grade-8/interpret-graphs-of-proportional-relationships)