

PROPORTIONAL REASONING

PR1–3 Pre-Assessment

PR1–3 Pre-Assessment Answer Key

Unit [Standards]	Goals [Pre-Assessment problem(s)]
PR 1 Ratio Representations <i>[6.RP.A]</i>	• Create and interpret tape diagrams that represent quantities, and then use them to make comparisons. [1, 4] • Use ratio notation and language to describe comparisons of quantities. [2] • Given a ratio relationship, create a double number line and use it to solve problems. [3, 4] • Write equivalent ratios using different methods and representations, and solve problems using ratio equivalence relationships. [2, 3, 4] • Create tables of data from which ratios can be written and analyzed. [4] • Clearly explain thinking about proportional reasoning concepts and solve problems using tables and tape diagrams. [1, 4, 5]
PR 2 Percents <i>[4.NS.C, 6.RP.A, 7.NS.A]</i>	• Understand a percent as a number that can also be written as a fraction or a decimal. [1, 2] • Use long division to change a fraction to a decimal that repeats. [3] • Find percent of a number using mental and computational strategies. [4, 5] • Solve percent problems that involve gratuities, markups, discounts, and sales tax. [5]
PR 3 Proportional Reasoning Applications <i>[6.RP.A, 7.RP.A, 7.G.A, 7.EE.B, 8.F.B]</i>	• Solve both routine and non-routine problems using proportional reasoning and tools like tables, double number lines, and tape diagrams. [1, 4] • Understand what proportion equations are and use them to solve problems. [2] • Make and interpret scale drawings, including both reductions and enlargements, and keep track of data in tables. [3] • Use tables, graphs, and equations to solve best buy problems. [4]