## RP Ratios and Proportional Relationships

- 6.RP.A Understand ratio and rate concepts and use ratio and rate reasoning to solve problems.
- 6.RP.A. 1 Understand the concept of a ratio including the distinctions between part:part and part:whole and the value of a ratio; part/part and part/whole. Use ratio language to describe a ratio relationship between two quantities.
- Write a ratio (6-R.1)
- Write a ratio: word problems (6-R.3)
- Which model represents the ratio? (6-R.4)
- 6.RP.A. 2 Understand the concept of a unit rate $a / b$ associated with a ratio $a: b$ with $b \neq 0$, and use rate language in the context of a ratio relationship, including the use of units.
- Unit rates (6-R.9)
- 6.RP.A. 3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
- 6.RP.A.3.a Make tables of equivalent ratios relating quantities with whole-number measurements. Find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
- Identify equivalent ratios (6-R.5)
- Write an equivalent ratio (6-R.6)
- Ratio tables (6-R.7)
- Equivalent ratios: word problems (6-R.8)
- Ratios and rates: complete a table and make a graph (6-R.11)
- 6.RP.A.3.b Solve unit rate problems, including those involving unit pricing, and constant speed.
- Compare rates: word problems (6-R.14)
- Ratios and rates: word problems (6-R.15)
- Unit prices (6-V.2)
- Unit prices with fractions and decimals (6-V.3)
- 6.RP.A.3.c Find a percent of a quantity as a rate per 100 (e.g., 30\% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.
- What percentage is illustrated? (6-S.1)
- Solve percent problems using grid models (6-S.8)
- Percents of numbers and money amounts (6-S.10)
- Percents of numbers: word problems (6-S.11)
- Find the total given a part and a percent (6-S.15)
- Which is the better coupon? (6-V.1)
- Sale prices (6-V.5)
- 6.RP.A.3.d Use ratio reasoning to convert measurement units within and between measurement systems; manipulate and transform units appropriately when multiplying or dividing quantities.
- Convert and compare customary units (6-T.3)
- Convert, compare, add, and subtract mixed customary units (6-T.4)
- Multiply and divide mixed customary units (6-T.5)
- Customary unit conversions involving fractions and mixed numbers (6-T.6)
- Convert and compare metric units (6-T.7)
- Convert between customary and metric systems (6-T.8)
- Unit prices with customary unit conversions (6-V.4)
- 6.RP.A.3.e Solve problems that relate the mass of an object to its volume.

