

# Module 1: Ratios & Unit Rates

School-Home Connections

## Vocabulary

**Ratio:** a relationship between two quantities (ex. 4 to 1, 4:1 or  $\frac{4}{1}$ )

**Equivalent Ratios:** ratios that have the same value

**Rate:** a ratio comparing quantities that have different units (ex. 360 miles/3 hours)

**Unit Rate:** a rate with the second term of one (ex. 120 miles per hour)

**Proportion:** if two or more ratios are equal, they are proportional or "in proportion"

**Percent:** "rate per one hundred," can be thought of as a ratio with a second term of one hundred (100)

**Tape Diagram:** a bar model that compares the two quantities of a ratio

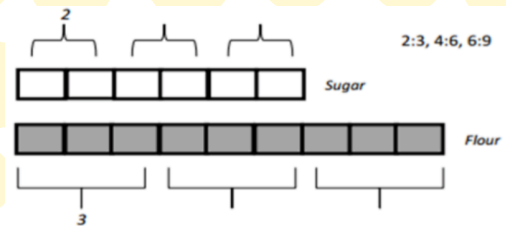
**Double Number Line:** a diagram of equivalent ratios on parallel number lines.

## Visual Representations

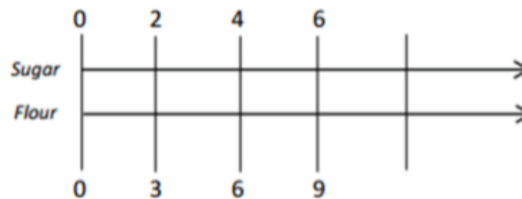
### Ratio Table

Sugar	Flour
2	3
4	6
6	9

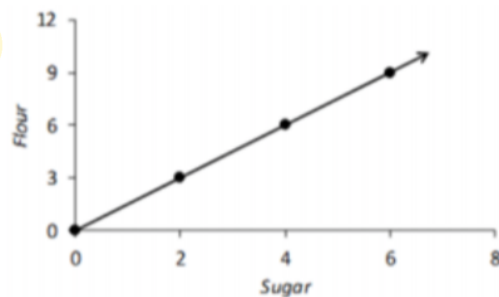
### Tape Diagram



### Double Number Line



### Coordinate Plane



## Common Core Standards

**6.RP.1** Understand the concept of a ratio and use ratio language to describe

**6.RP.2** Understand the concept of a unit rate  $\frac{a}{b}$  associated with a ratio  $a:b$ , and use rate language in the context of a ratio relationship

**6.RP.3** Use ratio and rate reasoning to solve real-world and mathematical problems, by reasoning about tables of equivalent ratios, tape diagrams, double number line or equations

## Helpful Resources

[www.learnzillion.com](http://www.learnzillion.com)

[www.engageny.com](http://www.engageny.com)

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