# Notice Differentiation Strategies Wonder the Effects for Equitable Classrooms

## **Activity Narrative**



This activity introduces students to ratio language and notation through examples based on a collection of everyday objects. Students learn that a ratio is an association between quantities, and that this association can be expressed in multiple ways.

### Activity



 Think of a way to sort your teacher's collection into two or three categories. Record your categories in the top row of the table and the amounts in the second row.

## **Activity Narrative**



In this activity, students continue to draw connections between a diagram and the ratios it represents. Students work in pairs to discuss different ways to use ratio language to describe discrete diagrams. They first identify statements that would cor

## Activity



Elena mixed 2 cups of white paint with 6 tablespoons of blue paint.

Here is a diagram that represents this situation.

### **Activity Narrative**



Students continue to use diagrams to represent the ratio of ingredients in a recipe as well as mixtures that contain multiple batches. They come to understand that a change in the number of

#### Activity



A recipe for one batch of cookies calls for 5 cups of flour and 2 teaspoons of vanilla.

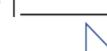
1. Draw a diagram that shows the amount of flour and vanilla needed for two batches of cookies.

## **Activity Narrative**



In this activity, students mix different numbers of batches of a color recipe to obtain a certain shade of green. They observe how multiple batches of the same recipe produce the same shade of green

#### Activity



Your teacher mixed milliliters of blue water and milliliters of yellow water in the ratio 5:15.

1. Doubling the original recipe:

## **Activity Narrative**



In this activity, students identify what equivalent ratios have in common (a ratio equivalent to a:b can be generated by multiplying both a and b by the same number) and generate equivalent ratios

#### Activity



The ratios 5:3 and 10:6 are equivalent ratios.

1. Is the ratio 15:12 equivalent to these? Explain your reasoning.

