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Module 4 Fractions, Decimals, Percents, and Factors
Lesson 1 Concepts of Fractions, Ratios, and Percents

## Set 1

(1) Represent $\frac{2}{5}$ using two different models.
(2)

What is the ratio of teachers to students?

| Students |  | Teacher |
| :---: | :---: | :---: |
| Boys | Girls |  |
| 12 | 13 | Mr. King |
| 15 | 11 | Ms. Apple |

## Set 2

(1) Explain how fractions, ratios, and percents are the same.
(2)

Explain how fractions, ratios, and percents are different.

## Possible Answers

## Set 1

1. Divide a rectangle into five equal parts. Shade two of the regions. Using a number line, divide the space between zero and one into five equal parts. Two parts to the right of zero is $\frac{2}{5}$.

$0 \quad \frac{2}{5}$
1
2. $\mathbf{1 2}+\mathbf{1 3}+\mathbf{1 5}+\mathbf{1 1}=\mathbf{5 1}$

51 students
2:51

Set 2

1. Fractions, ratios, and percents name part of a whole. These can all represent the same number.
2. Fractions, ratios, and percents are written differently, such as $\frac{\square}{\square}$, "to," :, and \%. Fractions and percents compare a part to a whole, while ratios can compare a part to another part. In a percent, a part is always being compared to one hundred.
