

Writing and Simplifying Ratios

Three Ways to write a ratio:

division sign, colon, or to.

Simplify ratios the same way you simplify fraction.

Example: Write as a ratio and simplify: there are 20 quarters in \$5.00

Writing, quarters/dollars

$20/5$, $20 : 5$ or 20 to 5

Simplifying; $20/5 = 4/1$

Write a ratio and simplify the following ratios:

1. 12 boys for every 18 girls
2. 24 for every 6 dollars
3. 72 hours for every 3 days
4. 18 drinks cost \$27
5. 7 inches is 175 miles

A certain math test has 50 questions. The first 10 are true – false and the rest are matching. Find:

- a. The ratio of true-false questions to matching questions.
- b. The ratio of true-false questions to the total number of questions.
- c. The ratio of the total number of questions to matching questions.

Using the following pictograph:



- a. The ratio of squares to circles.
- b. The ratio of triangles to all the figures.
- c. The ratio of squares and triangles to circles.
- d. The ratio of circles to squares