


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, $20/5$, $20 : 5$ or 20 to 5
Simplifying; $20/5 = 4/1$**

Write a ratio and simplify the following ratios:

- 12 boys for every 18 girls
- 24 for every 6 dollars
- 72 hours for every 3 days
- 18 drinks cost \$27
- 7 inches is 175 miles
- Express each ratio as a fraction.
 - 3 to 4
 - 8 to 5
 - 9:13
 - 15:7
- Express each ratio in simplest form.
 - 12 to 10
 - 24:36
 - $\frac{15}{18}$
- A certain math test has 50 questions. The first 10 are true – false and the rest are matching. Find:
 - The ratio of true-false questions to matching questions.
 - The ratio of true-false questions to the total number of questions.
 - The ratio of the total number of questions to matching questions.
- Using the following pictograph:

 - The ratio of squares to circles.

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