

Practice 5-1

Ratios

Write a ratio for each situation in three ways.

- Ten years ago in Louisiana, schools averaged 182 pupils for every 10 teachers.

- Between 1899 and 1900, 284 out of 1,000 people in the United States were 5–17 years old.

Use the chart below for Exercises 3–4.

Three seventh-grade classes were asked whether they wanted chicken or pasta served at their awards banquet.

Room Number	Chicken	Pasta
201	10	12
202	8	17
203	16	10

- In room 201, what is the ratio of students who prefer chicken to students who prefer pasta?

- Combine the totals for all three rooms. What is the ratio of the number of students who prefer pasta to the number of students who prefer chicken?

Write each ratio as a fraction in simplest form.

- 12 to 18 _____
- 81 : 27 _____
- $\frac{6}{28}$ _____

Tell whether the ratios are *equivalent* or *not equivalent*.

- 12 : 24, 50 : 100 _____
- $\frac{22}{1}$, $\frac{1}{22}$ _____
- 2 to 3, 24 to 36 _____
- A bag contains green, yellow, and orange marbles. The ratio of green marbles to yellow marbles is 2 : 5. The ratio of yellow marbles to orange marbles is 3 : 4. What is the ratio of green marbles to orange marbles?

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