


- CCSS: 6.RP.1
- Learning Objective: Ratios and Proportions

➤ Academic Vocabulary:

- Ratio
- Proportion

➤ Examples: Ratios

<p>1. Three ways to write an ratio</p> <p style="text-align: center;">5 to 3</p> <p style="text-align: center;">5 : 3</p> <p style="text-align: center;">$\frac{5}{3}$</p>	<p>Using the word “to”</p> <p>Using the colon “:”</p> <p>Write as a fraction</p>
<p>2.</p> <p style="text-align: center;">  </p>	<p>Ratio of spades to diamonds</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>Ratio of diamonds to all suits</p> <p>1.</p> <p>2.</p> <p>3.</p>

Practice:

There are thirty-two students in Mr. Wong’s block 6 math class of which sixteen of them are girls.

What is the ratio of boys to girls?

What is the ratio of boys to the number of students in his block 6 class?

Examples: Proportions

1.

$$\begin{array}{r} \frac{x}{12} = \frac{3}{4} \\ 4 \cdot x = 3 \cdot 12 \\ 4x = 36 \\ \div 4 \quad \div 4 \\ \hline x = 9 \end{array}$$

Cross multiply

Multiply

Get the variable by itself

Do the inverse operation

Solve

Practice:

1.

$$\frac{5}{7} = \frac{12}{x}$$

Emmanuel used five slices of salami for every two slices of cheddar cheese. How many slices of cheddar cheese will Emmanuel need if he has thirty-five slices of salami?

Describe the differences between a ratio and a proportion.
