10.1 Ratios

A ratio is a way to compare two numbers or quantities, a and b, by division.

The numbers a and b are called the terms of the ratio.

A ratio can be written in three forms. Each form is read "the ratio of a to b".

Word Form:	Ratio Form:	Fraction Form:
a to b	a:b	<u>a</u>
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Ricardo grows plants on the balcony of his apartment. He plants three tomatoes, two peppers, and five carrots.

The table describes three types of ratios:

Туре	Comparison	Word Form	Ratio Form	Fraction Form
Part to Part	the number of tomatoes to the number of carrots	3 to 5	3 : 5	<u>3</u> 5
Part to Whole	the number of peppers to the total number of plants	2 to 10	2 : 10	2 10
Whole to Part	the total number of plants to the number of tomatoes	10 to 3	10 : 3	<u>10</u> <u>3</u>

Example: An author has written 7 novels, 5 short stories, and 3 plays. Write each ratio.

4.) novels to plays 7 to 3 7:3 <u>7</u> <u>3</u>

5.) short stories to novels

5 to 7