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| **MODULE:** 6 | **LESSON:** 1 | RATIOS |

A **ratio** is a comparison of *two* numbers or quantities.

Ratios can be written in three different forms:

$\frac{4}{7}$ 4:7 4 to 7

 Fraction form Colon form Word Form

**Twenty-one students are asked to choose their favorite music category. Eight chose pop, seven chose hip hop, and six chose rock. Write the ratio of rock music to pop music in all three forms.**

To write ratios:

1. Order matters: whichever is written first, should appear first in the ratio
2. Always write the ratio in fraction form first, then simplify
3. Now write the other 2 forms

So….

Rock to Pop

$$\frac{6 rock}{8 pop} = \frac{3}{4}$$

$\frac{3}{4} 3$:4 3 to 4

***HOW TO MAKE EQUIVALENT RATIOS:*** *Put into fraction form and then multiply or divide the numerator and denominator by the same number (any number)*

Make an equivalent ratio for $\frac{5}{7}$

$\frac{5}{7}$ **•** $\frac{2}{2}$ **=** $\frac{10}{14}$ **Therefore,** $\frac{5}{7}$ **=** $\frac{10}{14}$