5.7 Comparing Ratios

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Unit 5: Percent, Ratio, and Rate 5.7 Comparing Ratios

Math 8

There are three ways that we can compare ratios:

- Use equivalent ratios with one of the terms being

- Draw a <u>pictu</u>re



Examples

1. Recipe A for punch calls for 2 cans of concentrate and 3 cans of water. Recipe B for punch calls for 3 cans of concentrate and 4 cans of water. Use equivalent ratios to determine which punch is stronger.

A Concentrate: Water =
$$\frac{2}{2}$$
: $\frac{3}{3}$

Multiples for 3 and 4: Multiples of 3: 3, 6, 9, 12, 15, 18... Multiples of 4: 4, 8, 12, 16, 20...

Since we are looking for the stronger punch, we could make the amount of water the common term and then compare the number of cans of concentrate.

B Concentrate: Water = $\frac{3}{2}$:

A Concentrate: Water = 2:3 = (2×4) : (3×4) = 8:12

B Concentrate: Water = 3: $4 = (3 \times 3) - (4 \times 3) = 9.72$ Recipe B is stronger because it requires

more concentrate than Recipe A.

OR

A Concentrate: Water = 2:3=2:3=0.6

B Concentrate: Water = 3:4= $\frac{3}{4}$: $\frac{4}{4}$ = 0.75.

Recipe B is stronger because it requires more concentrate than Recipe A.

2. Erica makes her coffee with 2 scoops of coffee to 5 cups of water. Iim makes his coffee with 3 scoops of coffee to 7 cups of water. Draw a picture to determine who makes stronger coffee.

Erica



Iim



