## 5.7 Comparing Ratios - Notes

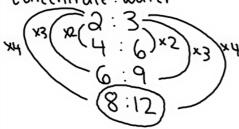
<u>Investigation:</u> Recipes A for punch calls for 2 cans of concentrate and 3 cans of water.

Recipes B for punch calls for 3 cans of concentrate and 4 cans of water.

In which recipe is the punch stronger? Or, are the drinks the same strength?

Recipe A

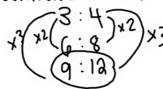
Concentrate: water



**Example (1):** Which coffee is stronger?

Recipe B

Concentrate: Water



Recipe B is stronger since it uses mure cans of concentrate for the same amount of water as Recipe A

## **Example (1):** Which coffee is stronger?

Erica makes her coffee with 2 scoops of coffee to 5 cups of water.



Erica Coffee: water x3(2:5) x3(3:15)x3

Jim makes his coffee with 3 scoops of coffee to 7 cups of water.



Jim Coffee: water 3:7 42 6:142 x2

Jim's coffee is stronger. He uses less water for the same amount of coffee as Erica

 $x5 \binom{3:7}{15:35} x5$ 

Jim's is stronger because he use more coffee for the same amount of water-

Example (2): The recommended seeding on a package of grass seed is 200g per 9  $m^2$ . Carey spread 150 g over 6.5  $m^2$ .

Is this more than, equal to, or less than the recommended seeding?

$$x_3 \binom{600:34}{900:4} x_3$$

i) 2:3

ii) 4:3

**Example (3):** Write each part-to-part ratio as a part-to-whole ratio, then as a fraction and percent. Which part-to-whole ratio is greater?

**Example (4):** A contractor brought 2 shades of yellow paint for his clients to see. Shade 1 is made by mixing 5 cans of yellow paint with 3 cans of white paint.

Shade 2 is made by mixing 7 cans of yellow paint with 4 cans of white paint.

The clients want the lighter shade. Which shade should they choose?

What assumptions do you make?

Shade 1 Yellow: white x4 (5:3)x4

Shade 1 is lighter Since it uses less yellow For the same amount of White.

=3(5:3) 2=3 =4(7:4)=4