

Name: _____

Date: _____ Block: _____

2.1 Ratios

Mrs. van der Vossen Math8

Part 1: Identify the missing number: (1 mark each)

$\frac{1}{3} = \frac{\blacksquare}{24}$	$\frac{4}{5} = \frac{48}{\blacksquare}$	$\frac{13.75}{1} = \frac{\blacksquare}{8}$	$\frac{6}{24} = \frac{\blacksquare}{12}$
$\frac{10}{4} = \frac{\blacksquare}{200}$	$\frac{9}{6} = \frac{48}{\blacksquare}$	$\frac{75}{1} = \frac{\blacksquare}{6}$	$\frac{16}{24} = \frac{\blacksquare}{2}$
$\frac{88}{3} = \frac{\blacksquare}{6}$	$\frac{\blacksquare}{5} = \frac{48}{3}$	$\frac{5}{\blacksquare} = \frac{15}{75}$	$\frac{\blacksquare}{400} = \frac{1}{8}$
3:4 6: \blacksquare	1:16 \blacksquare :128	\blacksquare :40 2:5	2: \blacksquare 24:36

13**Part 2:** Find the ratios: REDUCE IF NEEDED

If the ratio of red dye to blue dye in a shade of purple is 2:3,
how many *mL* of blue dye will be needed if 24*mL* of red dye is used?

You bought a package of candy that had 18 suckers. The bag contained 3 blue, 6 red, 2 yellow and 7 orange. Use RATIO NOTATION.

- a) Write the ratio of blue to orange.
- b) Write the ratio of yellow to red.
- c) Write the ratio of yellow and orange compared to the total amount.

You want to make cookies for the school bake sale. If your recipe calls for a ratio of sugar to flour of 3:5, how much flour will you need if you use 4.5 cups of sugar?

A hairdresser mixes brunette hair coloring for a client using 20mL hair color, 40mL color developer, 15mL conditioner, and 3mL thickener.

Express your answers as REDUCED FRACTIONS.

- a) ratio of hair color to thickener
- b) ratio of thickener to conditioner
- c) ratio of color developer to hair color

The ratio of oil to gasoline in a weed whacker is 5:12.

If the **total** amount of fluid used is 51L, how many liters of each fluid are used? (hint ratio of 5:12 gives 17L total)