

Example: A Recipe for pancakes uses 3 cups of flour and 2 cups of milk.

So the ratio of flour to milk is $3 : 2$

To make pancakes for a LOT of people we might need 4 times the quantity, so we multiply the numbers by 4:

$$3 \times 4 : 2 \times 4 = 12 : 8$$

In other words, 12 cups of flour and 8 cups of milk.

The ratio is still the same, so the pancakes should be just as yummy.

Multiply or divide both sides of a ratio by the same number to create an equivalent ratio

NOTE:
Not allowed to add or subtract on both sides of a ratio

Pg 272
Example 1

Write 3 ratios equivalent to 2:5.

$$\begin{array}{c} \times 2 \quad \times 2 \\ 4:10 \end{array}$$

$$\begin{array}{c} 2:5 \\ \times 3 \quad \times 3 \\ 6:15 \end{array}$$

$$\begin{array}{c} 2:5 \\ \times 7 \quad \times 7 \\ 14:35 \end{array}$$

Example 2

Write 3 ratios equivalent to 36:6.

$$\begin{array}{c} 36:6 \\ \times 2 \quad \times 2 \\ 72:12 \end{array}$$

$$\begin{array}{c} 36:6 \\ \div 2 \quad \div 2 \\ 18:3 \end{array}$$

$$\begin{array}{c} 36:6 \\ \div 6 \quad \div 6 \\ 6:1 \end{array}$$

Example 3

Construction kits come in different sizes.

The regular kit contains 120 long rods, 80 short rods, and 40 connectors. List 3 other kits that could be created with the same ratio of rods and connectors.

$$120 : 80 : 40$$

$\div 10$ $\div 10$ $\div 10$

$$12 : 8 : 4$$

$\div 2$ $\div 2$ $\div 2$

$$6 : 4 : 2$$

$\times 3$ $\times 3$ $\times 3$

$$18 : 12 : 6$$

PRACTICE DAY 1Pg 274 #5, 7, 9, 12, 16