

# Chapter 1 Lesson 4

## Ratio Tables

### Vocabulary:

**Ratio table** – table in which columns are filled with pairs of numbers that have the same ratio.

**Equivalent ratios** – show the same relationship between the quantities

**Scaling** – multiply or divide 2 related quantities by the SAME number

### Ratio Table Examples:

Cans of juice	1	2	3
Cans of water	2	4	<u>6</u>

**Equivalent ratios:**

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{\underline{6}}$$

Cups of icing	1	5
Drops of icing	6	<u>30</u>

$\overset{\text{x5}}{\curvearrowright}$   
 $\underset{\text{x5}}{\curvearrowleft}$

**Equivalent ratios:**

$$\frac{1}{6} = \frac{5}{\underline{30}}$$

May have to scale back, THEN forward

Scaling Examples:

\* There is no whole number that I can multiply 10 by to get to 15.  
I HAVE TO SCALE.

Cans of corn	10	5	15
Cost in dollars	4	2	6

$\xrightarrow{x3}$   
 $\xrightarrow{x3}$

$$\begin{array}{r} 2 \overline{) 10} \quad 4 \\ \underline{5} \quad 2 \end{array}$$

\* There is no whole number that I can divide 16 by to get to 12.  
I HAVE TO SCALE.

Ounces of nectar	16	4	12
Number of Birds Fed	80	20	60

$\xrightarrow{x3}$   
 $\xrightarrow{x3}$

$$\begin{array}{r} 2 \overline{) 16} \quad 80 \\ 2 \overline{) 8} \quad 40 \quad ? \\ \underline{4} \quad 20 \end{array}$$