## Proportional Relationships in Tables

Always for proportions: $\frac{y}{x}$

Is the Table Proportional?
The table below gives the price for different numbers of books. Do the numbers in the table represent a proportional relationship? Why or why not?

| $x$ | Books | 2 | 4 | 7 | 9 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Cost <br> (dollars) | 6 | 12 | 18 | 27 |  |
| No $\frac{y}{x} \frac{6}{2}: 3$ | $\frac{12}{4}=3$ | $\frac{18}{7} 22.56$ | $\frac{27}{9}=3$ |  |  |

## Proportionality in Tables

A table shows a relationship is proportional if:


## Proportionality in Tables

| $\boldsymbol{x} \quad$Is the number of stamps <br> proportional to money spent on <br> stamps? |
| :---: |
| Total <br> number of <br> stamps Money spent <br> on stamps <br> (dollars) <br> 2 $0.88 \quad \frac{.88}{2}=$ What is the unit rate? |
| 5 |

## Use Tables for Proportional Relationships

At Cocoa Bean Chocolate Factory, 2 pounds of their worldfamous chocolate fudge sells for $\$ 1.00$. Complete the table to find the costs of different amounts of fudge. $\frac{1.00}{2}$


Use Tables for Proportional Relationships

Use the table below to determine how much fudge we could buy with 5.00.

| $\mathbf{y}$ | Fudge <br> (pounds) | 1 | 2 |
| :---: | :---: | :---: | :---: |
| Cost <br> (dollars) | .50 | 1.00 | 5.00 |

Use Tables for Proportional Relationships
If $1 / 2$ gallon of paint covers $1 / 6$ of a wall, then how much paint is needed for the entire wall? $\frac{\frac{1}{2} \cdot \frac{6}{1}}{x}=\frac{6}{2}=\frac{3 \text { galons }}{\mid \text { wall }}$


## Use Tables for Proportional Relationships

Jenna made lemonade for a fundraiser. For every 12 lemons, she used 4 cups of water. Fill in the missing values in the ratio table.

$\frac{12 l e m o n s}{4 k r e m o n s}$

$$
\begin{aligned}
& \frac{\text { Unit Rate: }}{\frac{3 \text { lemons }}{1 \text { Cup }}} \\
& \text { Equation: } \\
& 3 w=l \\
& \frac{l}{3}=W
\end{aligned}
$$

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