

Notes - Proportional Relationships in Tables

Proportional Relationships in Tables

Proportionality in Tables

A table shows a relationship is proportional if:

- There is a unit rate consistent for the entire table (always divide y by x)

x	Days	0	1	2	3
y	Homework (in hours)	0	4	6	9

Proportional? _____

x	y
Time (seconds)	Multiplication Facts
0	0
1	2
2	4
3	6

Proportional? _____

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
y	Cost (dollars)	6	12	18	27

Proportionality in Tables

x	y
Total number of stamps	Money spent on stamps (dollars)
2	0.88
5	2.20

Is the number of stamps proportional to money spent on stamps?

What is the unit rate?

Write an equation to show the relationship between the money spent on stamps (m) and number of stamps (n).

Proportionality in Tables

x	Sticks of Butter	1/2	3
y	Number of Cakes	2	12

Is the number of cakes proportional to the sticks of butter?

What is the unit rate?

Write an equation to show the relationship between number of cakes (c) and sticks of butter (b).

Use Tables for Proportional Relationships

At Cocoa Bean Chocolate Factory, 2 pounds of their world-famous chocolate fudge sells for \$1.00. Complete the table to find the costs of different amounts of fudge.

x	Fudge (pounds)	1	2	3	4
y	Cost (dollars)		1.00		

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Use Tables for Proportional Relationships

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

x	Fudge (pounds)	1	2	
	Cost (dollars)		1.00	5.00

Use Tables for Proportional Relationships

If $\frac{1}{2}$ gallon of paint covers $\frac{1}{6}$ of a wall, then how much paint is needed for the entire wall?

	x	y
	Coverage (walls)	Paint (gallons)
	$\frac{1}{6}$	$\frac{1}{2}$
		1
	1	

Unit Rate:

Equation:

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.

x	Water (cups)	4	24	10	
	Lemons	12	24		3

Unit Rate:

Equation:

Attachments

mental math division.ppt