

Student: _____
Date: _____
Time: _____

Instructor: Bethany Mampre
Course: digits - grade 7 (4)
Book: digits - grade 7

Assignment: 2-1 Homework G

1. The table shows a proportional relationship between x and y . Complete the table.

x	3	4	5	6
y	9	12	15	18
Ratio $\frac{y}{x}$?	?	$\frac{3}{1}$?

Complete the table.

x	3	4	5	6
y	9	12	15	18
Ratio $\frac{y}{x}$	<input type="text"/>	<input type="text"/>	$\frac{3}{1}$	<input type="text"/>

(Simplify your answers.)

2. The amount of time Demi spends studying and her test scores have a proportional relationship. Complete the table.

Test Scores			
Hours Studying	2	3	4
Test Score	46	69	92
Ratio $\frac{\text{Test Score}}{\text{Hours Studying}}$	$\frac{23}{1}$?	?

Complete the table.

Test Scores			
Hours Studying	2	3	4
Test Score	46	69	92
Ratio $\frac{\text{Test Score}}{\text{Hours Studying}}$	$\frac{23}{1}$	<input type="text"/>	<input type="text"/>

(Simplify your answers.)

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3. Decide whether the table shows a proportional relationship between x and y .

x	y
11	33
12	36
13	39
14	42

The table does show a proportional relationship between x and y .
 does not

4. Decide whether the table shows a proportional relationship between x and y .

x	4	6	7	9
y	16	36	49	81

The table does not show a proportional relationship between x and y .
 does

5. The amount of seed needed for a landscaper to cover a lawn is shown in the table. Decide if the relationship between the amount of seed and the area it covers is proportional.

Lawn Seed	
Seed (oz)	Area Covered (ft^2)
1	23
2	46
3	69
4	92

The table does not show a proportional relationship between the amount of seed and the area it covers.
 does

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6. Your friend wants to know if there is a proportional relationship between the number of slices of turkey in a sandwich and the number of calories. Decide if the relationship between the number of slices of turkey in a sandwich and the number of calories is proportional.

Calories in a Sandwich	
Slices of Turkey	Calories
1	54
2	72
3	90
4	108

The table does not show a proportional relationship between the number of slices of turkey in a sandwich and the number of calories.

7. **Reasoning** Decide whether the table shows a proportional relationship between x and y . Use pencil and paper. Explain whether you can use the table to find the value of y when $x = 11$.

x	3	5	8	10
y	27	125	512	1,000
Ratio $\frac{y}{x}$?	?	?	?

The table does show a proportional relationship between x and y .

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8. **Cooking** At a café, the cook uses a recipe that calls for eggs and milk. The amounts of eggs and milk have a proportional relationship. Complete the table.

Ingredients in Recipe			
Number of Eggs	4	5	?
Cups of Milk	12	?	18
Ratio $\frac{\text{Milk}}{\text{Eggs}}$?	$\frac{3}{1}$	$\frac{3}{1}$

Complete the table.

Ingredients in Recipe			
Number of Eggs	4	5	<input type="text"/>
Cups of Milk	12	<input type="text"/>	18
Ratio $\frac{\text{Milk}}{\text{Eggs}}$	<input type="text"/>	$\frac{3}{1}$	$\frac{3}{1}$

(Simplify your answers.)

9. **Open-Ended** The lengths and widths of four rectangles have a proportional relationship. Complete the table. Use pencil and graph paper. Draw two rectangles with lengths and widths that have the same proportional relationship.

Dimensions of Rectangle				
Length	3	4	5	?
Width	18	?	30	36
Ratio $\frac{\text{Width}}{\text{Length}}$?	$\frac{6}{1}$?	$\frac{6}{1}$

Complete the table.

Dimensions of Rectangle				
Length	3	4	5	<input type="text"/>
Width	18	<input type="text"/>	30	36
Ratio $\frac{\text{Width}}{\text{Length}}$	<input type="text"/>	$\frac{6}{1}$	<input type="text"/>	$\frac{6}{1}$

(Simplify your answers.)

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10. The table shows a proportional relationship between x and y . Complete the table.

x	17	$\frac{1}{4}$	7
y	$4\frac{1}{4}$?	?
Ratio $\frac{y}{x}$?	$\frac{1}{4}$?

Complete the table.

x	17	$\frac{1}{4}$	7
y	$4\frac{1}{4}$	<input type="text"/>	<input type="text"/>
Ratio $\frac{y}{x}$	<input type="text"/>	$\frac{1}{4}$	<input type="text"/>

(Simplify your answers.)