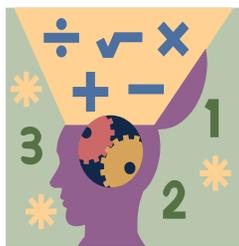


Name: \_\_\_\_\_ Section: \_\_\_\_\_



Hello scholars and parents. We will start with Chapter 17 this week with Lessons 17.1, 17.2 and 17.3

We have HMH Mid Year Math Assessment this week

If you have any questions or concerns, please feel free to contact me at [vasily.tserekh@archimedean.org](mailto:vasily.tserekh@archimedean.org).

**Notes**

Students **MUST** prove and show all their work. If additional space is needed, please feel free to attach lined paper to the homework packet. **Failure to show your work will result in a lower grade.** Please complete the homework to the best of your abilities

<u>Monday</u>	January 29	Chapter 17 Lesson 1
<u>Tuesday</u>	January 30	Chapter 17 Lesson 2
<u>Wednesday</u>	January 31	HMH Mid Year Math Assessment
<u>Thursday</u>	February 1	Chapter 17 Lesson 3
<u>Friday</u>	February 2	– Chapter 17 Lesson 3

Parents please initial below each day acknowledging your child has completed the assigned homework. **Homework will be checked daily in class. Completed homework packets are due on Tuesday, February 6 for a grade.**

Monday January 29	Tuesday January 30	Wednesday January 31	Thursday February 1	Friday February 2
Homework Page 1	Homework Page 2	No HW	Homework Page 3	No Hw

## Practice and Homework

Use the Practice and Homework pages to provide students with more practice of the concepts and skills presented in this lesson. Students master their understanding as they complete practice items and then challenge their critical thinking skills with Problem Solving. Use the Write Math section to determine students' understanding of content for this lesson. Encourage students to use their Math Journals to record their answers.

Name \_\_\_\_\_

## Record Inputs and Outputs in a Two-Column Table

LESSON 17.1  
Practice and Homework

Go Online

Interactive Examples

Use the rule to make an input/output table. **Check students' tables.**  
Include four input/output pairs in your table.

- Rule:** The output is  $a + 5$ .
- Rule:** The output is  $3c$ .
- Rule:** The output is  $d \times 6$ .
- Rule:** The output is  $10 + b$ .
- Rule:** The output is  $8e$ .
- Rule:** The output is  $12f$ .
- Rule:** The output is  $8 + 2g$ .
- Rule:** The output is  $k \times 2$ .

## Problem Solving

9. Suki uses toothpicks to build a number of separate shapes for her math project. She uses 1 toothpick for each side of a shape. Complete the input/output table to show how many toothpicks Suki needs to make 6 hexagons.

Input	Hexagons	$h$	1	2	3	4	5	6
Output	Toothpicks	$t$	6	12	18	24	30	36

**Suki needs 36 toothpicks for 6 hexagons.**

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Chapter 17 • Lesson 1 583

# Write a Rule for Number Patterns in Tables

Go Online

Interactive Examples

Find the rule to describe the pattern in the table. Decide if the rule is additive or multiplicative.

1.

Input	Output
$m$	$n$
1	11
2	22
3	33
4	44

The rule is \_\_\_\_\_.

Rule: \_\_\_\_\_

2.

Input	$d$	3	5	7	9
Output	$f$	7	9	11	13

The rule is \_\_\_\_\_.

Rule: \_\_\_\_\_

3.

Input	$p$	2	3	4	5
Output	$q$	30	45	60	75

The rule is \_\_\_\_\_.

Rule: \_\_\_\_\_

4.

Input	Output
$s$	$t$
4	10
6	12
8	14
10	16

The rule is \_\_\_\_\_.

Rule: \_\_\_\_\_

## Problem Solving

5. Marco pours 12 ounces of cranberry juice into a punch bowl. He uses a container to add sparkling water to the bowl one ounce at a time. Write a rule to show the pattern and use it to calculate how many ounces of liquid Marco will have in the bowl after adding 8 containers of sparkling water.

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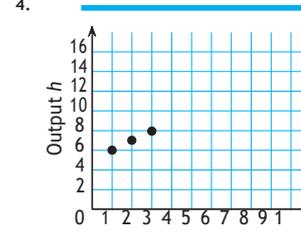
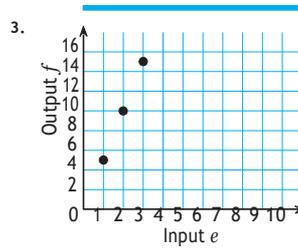
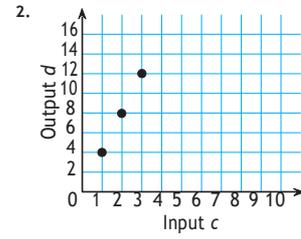
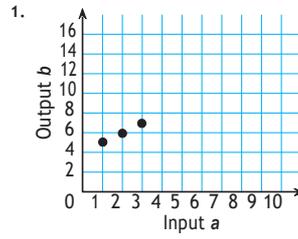
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## Write a Rule for Number Patterns in Graphs

Go Online

Interactive Examples

Is the pattern *additive* or *multiplicative*? Write the rule for the pattern.



### Problem Solving

5. Patrice rents a rowboat for several hours. Use the pattern shown in the graph to write the rule for calculating the cost of renting the rowboat. Use  $c$  for the cost and  $h$  for the number of hours.

\_\_\_\_\_

6. If Patrice rents the boat for 4 hours, what is the cost of the rental?

\_\_\_\_\_

