



Date \_\_\_\_\_ Name \_\_\_\_\_

**MAFS.4.OA.3.5- Number 1**

**Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.**

**Multi-Select Response**

- Hunter created the pattern below.  
128, 64, 32, \_\_, 8, \_\_

What are the missing numbers from the patterns?

- 18
- 24
- 16
- 4
- 6

Answer: \_\_\_\_\_

**Multiple Choice Response**

- A numerical pattern starts at the number 4 and follows the rule "divide by 2 then multiply by 4." Which of the following would be an example of the pattern?

- 4, 8, 12, 16, 20
- 4, 8, 16, 32, 64
- 4, 16, 64, 256, 1024
- 4, 2, 8, 4, 16

Answer: \_\_\_\_\_

**Table Response**

- The first number in a pattern is 100. The pattern follows the rule "Divide by 5 and add 5." Complete the table to show the next three numbers in the pattern.

Numbers in the pattern
100

Answer: \_\_\_\_\_

**Equation Response**

- The pattern below starts with the number 20 and follows a rule.

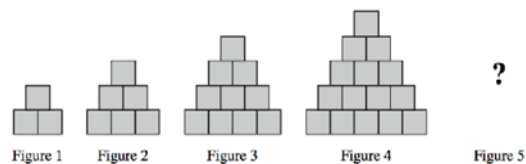
5, 15, 35, 75, 155

What is the rule for the pattern?

Answer: \_\_\_\_\_

**Open Response**

- A shape pattern is shown.



Describe how the total number of squares in each figure changes as the pattern continues.

Answer: \_\_\_\_\_