



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

- Ben created the pattern below.
14, 17, 20, 23, __, __

What are the next two numbers in the sequence?

- 11
- 26
- 24
- 32
- 29

Answer: _____

Multiple Choice Response

- A numerical pattern starts at the number 3 and follows the rule "multiply by 2 and subtract 2." Which of the following would be an example of the pattern?

- 3, 6, 12, 24, 48
- 3, 8, 18, 38, 78
- 3, 4, 6, 10, 18
- 3, 7, 11, 15, 19

Answer: _____

Table Response

- The first number in a pattern is 49. The pattern follows the rule "Add one and divide by 2." Complete the table to show the next three numbers in the pattern.

| Numbers in the pattern |
|------------------------|
| 49 |
| |
| |
| |

Answer: _____

Equation Response

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

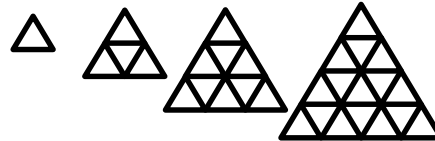
20, 50, 110, 230, 470

What is the rule for the pattern?

Answer: _____

Open Response

- A shape pattern is shown.



Describe how the number of total triangles in each shape is related to the shape's number.

Answer: _____