

Sticks and No Stones Part 1



Stage 1

How many sticks are in this stage? _____

Stage 2

How many sticks are in this stage? _____

Stage 3

How many sticks are in this stage? _____

Stage 4

What would stage four look like? How many sticks are in Stage 4? _____

How many sticks would be in Stage 10? _____ Stage 50? _____ Stage 100? _____

How did you get your answers?

Describe the pattern/relationship you see between the Stage number and the number of sticks in each stage.

Graph the data in your table. Let x be the Stage number and y be the number of sticks in the stage. Describe what you see.

Write a rule/formula for finding the number of sticks in any stage.

Complete the table of values. Record of the number of sticks in each stage:

| Stage Number | Number of Sticks |
|--------------|------------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| | |
| | |
| | |
| 100 | |
| | |
| 200 | |
| n | |