

Student Activity Book

More Patterns from Gzorp
Questions 1–5 (SAB pp. 365–367)

1. Long-Tailed Dragon Fly

A Age in Years	S Size in Squares
1	7
2	8
3	9
4	10
5	11
6	12
20	26
239	245

$S = A + 6$

2. Add Three Shark

A Age in Years	S Size in Squares
1	4
2	7
3	10
4	13
5	16
10	31
12	37
50	151

$S = A \times 3 + 1$

3. Four Stripes Snake

A Age in Years	S Size in Squares
1	2
2	6
3	10
4	14
5	18
10	38
20	78
30	118

$S = 4 \times A - 2$

4. Names will vary

A Age in Years	S Size in Squares
1	5
2	7
3	9
4	11
5	13
6	15
15	33
50	103

$S = A \times 2 + 1$


5.* Drawings and responses will vary. See Figure 6 in the lesson for possible responses.

*Answers and/or discussion are included in the lesson.

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Name _____ Date _____

More Patterns from Gzorp



Professor Peabody made data tables for some other creatures from Planet Gzorp. The tables show each animal's age in years (*A*) in the first column and the animal's size in squares (*S*) in the second column.

The problem is that Professor Peabody forgot to record data for some of the animals he observed. He is also missing formulas for some of the animals. Help Professor Peabody by completing the tables and formulas for him.

For Questions 1–4, predict values for the missing data in each of Professor Peabody's tables. If there is no formula written in the box below the table, write a formula that fits the pattern you see.

1. Long-Tailed Dragonfly

A Age in Years	S Size in Squares
1	7
2	8
3	9
4	
	11
6	
20	
	245

S = _____

2. Add Three Shark

A Age in Years	S Size in Squares
1	4
2	7
3	10
4	
5	
10	
	37
50	

S = _____

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Name _____ Date _____

3. Four Stripes Snake

A Age in Years	S Size in Squares
1	
2	
3	
4	
5	
	38
20	
30	

S = $4 \times A - 2$

4. _____

A Age in Years	S Size in Squares
1	5
2	7
3	9
	11
5	
6	15
15	
50	

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✓ Check-In: Question 5

5. For the table in Question 4, use square-inch tiles to build a model of a new animal from Gzorp that fits the data. Name the animal and write it as the title of the data table. Make drawings of the animal for each age from 1 through 5 years. Show how you know that your animal's growth matches the data and formula from Question 4.

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