

Name: _____

Date: _____

Find the Rule!

Section 1:

Look at each pattern. Write the rule that describes how the numbers change.

1. 2, 4, 8, 16, 32 → _____

2. 3, 6, 12, 24, 48 → _____

3. 5, 10, 15, 20, 25 → _____

4. 10, 20, 40, 80, 160 → _____

5. 7, 14, 21, 28, 35 → _____

Section 2:

Use the same rule to continue each pattern. Write the next two numbers.

• 4, 8, 12, 16, __, __ → Rule: _____

• 9, 18, 36, 72, __, __ → Rule: _____

• 1, 2, 4, 8, __, __ → Rule: _____

• 6, 12, 18, 24, __, __ → Rule: _____

• 5, 10, 20, 40, __, __ → Rule: _____

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EXPLAIN:

Answer in complete sentences.

11. How do they find the rule of a pattern?

CREATE YOUR OWN:

12. Create your own multiplicative pattern using any number and rule (for example, $\times 3$). Pattern:

Rule:

Explain how you made your pattern:
