Review of Generating Number Patterns

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Understanding Patterns and Graphing

Name: _____ Date: _____

Answer the following questions based on today's lesson about generating number patterns and graphing them on a coordinate plane.

1. What is the first step in generating a number pattern?

- **A.** Creating ordered pairs
- **B.** Deciding on a rule
- **C.** Graphing on a coordinate plane

2. Mathematical patterns can be seen as reflections of ____ design.

3. How do mathematical patterns demonstrate order in creation? Explain in a few sentences.

4. All number patterns are random and do not follow any specific rules.

◯ True ◯ False

5. Which of the following is an example of an ordered pair?

- **A.** (3, 4)
- **B.** (4, 3)
- **C.** (3, 3, 4)

6. In a coordinate plane, the x-axis represents the ____ values.

7. Describe one pattern you discovered today and how you would graph it.

8. Proverbs 3:19 tells us that God used wisdom to create the earth.

◯ True ◯ False

9. Which of the following best describes how to create ordered pairs from a number pattern?

- **A.** Choose two random numbers
- **B.** Match each term of the pattern with its position
- **C.** Skip every other term

10. Where do you see patterns in nature? Give one example and explain.

Answer Key

1. Deciding on a rule 2. divine 3. Mathematical patterns show a predictable sequence that reflects the order God has in nature. Just like creation has structure, these patterns help us understand and predict outcomes. 4. False 5. (3, 4) 6. horizontal 7. I discovered a pattern where each number increases by 2. I would start at (0,0) and plot points like (1,2), (2,4), (3,6) on the graph. 8. True 9. Match each term of the pattern with its position 10. I see patterns in the leaves of trees. They often grow in a spiral pattern, which is very organized and helps the tree get sunlight.