

# Math Patterns and Algebra Readiness Review

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## Understanding Patterns and Their Creation

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Answer the following questions based on what you learned about creating patterns in math.

1. What is essential for creating a clear pattern?

- A. Confusion
- B. Clear rules
- C. Randomness

2. God established the heavens using \_\_\_ according to Proverbs 3:19.

3. What makes a pattern interesting? Provide one example of an interesting pattern you learned about.

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4. Good patterns should frustrate those trying to solve them.

- True       False

5. Which of the following describes a visual pattern?

- A. 1, 2, 3, 4
- B. Red, Blue, Red, Blue
- C. 5, 10, 15, 20

6. How can we ensure our patterns are educational? Give two ideas.

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7. Creating patterns helps develop \_\_\_ thinking skills, which are important for algebra.

8. Patterns can only be numerical and cannot be visual or sequential.

- True       False

9. What did you learn about creating mathematical challenges? Choose the best option.

- A. They should be easy for everyone.
- B. They should be straightforward and clear.
- C. They can be totally random.

10. What made your pattern unique? Describe one element that set it apart from others.

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Answer Key

1. Clear rules 2. understanding 3. A pattern is interesting when it has unique and clear rules. For example, a pattern that alternates between shapes and colors, like a triangle, circle, triangle, circle, is engaging. 4. False 5. Red, Blue, Red, Blue 6. We can include math operations in our patterns, like adding or subtracting numbers. We can also use patterns to teach shapes, colors, or sequences to help others learn. 7. logical 8. False 9. They should be straightforward and clear. 10. My pattern was unique because it combined numbers with colors, like 1 (red), 2 (blue), 3 (red), 4 (blue), which made it both numerical and visual.