

# Hierarchical Classification of Shapes

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## Understanding Two-Dimensional Figures

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

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

Answer the following questions based on what we learned about shape classifications.

1. What is a square classified as?

- A. Only a quadrilateral
- B. A rectangle and a rhombus
- C. Just a rhombus

2. What does it mean for a shape to belong to multiple categories?

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3. Every square is also a \_\_\_ and a rhombus.

4. A square is only a quadrilateral and does not fit into any other categories.

- True       False

5. How does classifying shapes help us in math?

- A. It makes math more confusing
- B. It helps us understand and organize shapes better
- C. It has no effect on our understanding

6. Why is it important to have order and organization in math, and how does this relate to God's instruction in 1 Corinthians 14:40?

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7. The hierarchical classification diagram helps us understand how shapes relate to one another in a \_\_\_ way.

8. All quadrilaterals are rectangles, but not all rectangles are quadrilaterals.

- True       False

9. Which of the following is NOT a characteristic of a square?

- A. It has four equal sides
- B. It has opposite sides that are parallel
- C. It has three sides

10. What did we learn about the relationships between different two-dimensional shapes?

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Answer Key

1. A rectangle and a rhombus 2. It means that the shape shares characteristics with different types of shapes, making it fit into more than one classification. 3. rectangle 4. False 5. It helps us understand and organize shapes better 6. Having order in math helps us solve problems more easily. God values order in all things, which is why He wants us to do things decently and in order, including our work in math. 7. systematic 8. False 9. It has three sides 10. We learned that shapes like squares can belong to multiple categories, such as rectangles and rhombuses, because they share similar properties.