

CHAPTER-4 | Exploring Some Geometric Themes

QUIZ PART-04

1. Fractals can be found in:

- A. Art only
- B. Mathematics only
- C. Art and Architecture
- D. Sports only (C)

Explanation : This part shows examples of fractals in art and architectural designs.

2. Which temple is shown as an example of fractals in architecture?

- A. Konark Temple
- B. Kandariya Mahadev Temple
- C. Meenakshi Temple
- D. Brihadeeswara Temple (B)

Explanation: The Kandariya Mahadev Temple is presented as an example of fractal patterns.

3. The Nigerian Fulani Wedding Blanket is used as an example of:

- A. Fractals in Art
- B. Cubes
- C. Shadows
- D. Nets (A)

Explanation: The blanket contains repeating geometric patterns that illustrate fractal ideas.

4. Modern fractal art is associated with:

- A. Euclid
- B. Pythagoras
- C. M.C. Escher
- D. Von Koch (C)

Explanation: The chapter mentions Dutch artist M.C. Escher in connection with modern fractal art.

5. M.C. Escher was a:

- A. Swedish mathematician
- B. Dutch artist
- C. Indian architect
- D. Greek philosopher (B)

Explanation : M.C. Escher is identified as a Dutch artist.

6. The artwork mentioned in the chapter by M.C. Escher is called:

- A. Larger and Larger
- B. Smaller and Smaller
- C. Bigger and Bigger
- D. Tiny Shapes (B)

Explanation : The chapter specifically mentions Escher's work "Smaller and Smaller".

7. In "Smaller and Smaller", the repeating pattern is of:

- A. Birds
- B. Fish
- C. Lizards
- D. Flowers (C)

Explanation : The artwork shows identical lizard patterns at smaller and smaller scales.

8. Fractal patterns are characterized by:

- A. Random shapes only
- B. Self-similarity
- C. Equal areas only
- D. Straight lines only (B)

Explanation : Fractals display self-similarity, where smaller parts resemble the whole.

9. Which shape pattern is observed in the Nigerian Fulani Wedding Blanket?

- A. Triangle
- B. Rectangle
- C. Square
- D. Diamond (D)

Explanation : The blanket prominently shows repeating diamond-shaped patterns.

10. In Escher's artwork, the lizard pattern appears:

- A. Only once
- B. At the same size everywhere
- C. At smaller and smaller scales
- D. In different colours only (C)

Explanation : The artwork demonstrates self-similarity through lizards repeated at progressively smaller scales.