# **Tiling Patterns**

۹.	Choose	the	correct	answer:

#### 1. A tiling pattern is created using which type of shapes?

- a) Only circles b) Shapes that fit together without gaps
- c) Shapes that overlap d) Only triangles

#### 2. Which of these shapes can make a perfect tiling pattern?

- a) Circle b) Hexagon
- c) Oval d) Star

#### 3. What is a key rule in making a good tiling pattern?

- a) Use different shapes randomly
- b) Leave gaps between shapes
- c) Shapes must fit without gaps or overlaps
- d) Use only colorful shapes

#### 4. Which of these patterns can be seen in floor tiles?

- a) A pattern of different animals b) Random colors
- c) Repeated geometric shapes d) Zig-zag lines only

#### 5. What type of shapes are most commonly used in tiling?

a) Organic shapesb) Irregular shapesc) Regular polygonsd) Shapes with curved sides

#### **B. Write the Missing Terms to Complete the Sentences:**

- 1. A tiling pattern is also called a \_\_\_\_\_ pattern
- 2. Shapes that fit together without any gaps are called \_\_\_\_\_\_
- 3. Square tiles are used because they fit \_\_\_\_\_ together
- 4. A pattern using repeated shapes is called a \_\_\_\_\_ pattern
- 5. A tiling pattern must not have \_\_\_\_\_ or \_\_\_\_\_

# C. Mark each sentence with a True ( ✔) or False (X):

- 1. A square can tile a surface without leaving gaps \_\_\_\_\_
- 2. Circles make perfect tiling patterns
- 3. Tiling patterns are only used in wall paintings
- 4. A hexagon can be used to make a tiling pattern \_\_\_\_\_
- 5. All tiles in a pattern must be of different shapes \_\_\_\_\_

## **D.** Figure out the answers to these questions:

- 1. Which shapes can you use to make a tiling pattern without leaving gaps?
- 2. Identify a tiling pattern on your classroom floor and describe the shape used.
- 3. Draw or imagine a tiling pattern using triangle and square shapes.
- 4. Explain why circles cannot form a perfect tiling pattern.
- 5. Find the next shape in the pattern: square, triangle, square, triangle, \_\_\_\_\_.

## E. Challenge yourself with these questions:

- 1. Make a tiling pattern using 3 different polygon shapes.
- 2. Which regular polygons can tile a floor perfectly?
- 3. Write the rule of tiling pattern using squares and triangles.
- 4. Create your own shape pattern that could be used in tiling.
- 5. Describe any tiling pattern you have seen at home or school.