



## Recreational/Enrichment Material

### A. Choose the Correct Answer:

1. Which of the following designs is most likely to show symmetry?
  - a) A zebra crossing
  - b) A floor tile with a floral pattern
  - c) A number line
  - d) A staircase
2. Rangoli patterns are a good example of:
  - a) Rotational motion
  - b) Line drawing
  - c) Symmetry in art
  - d) Algebra
3. Symmetrical paper-cutting activities are based on:
  - a) Folding and coloring
  - b) Folding and cutting
  - c) Drawing and measuring
  - d) Rolling and folding
4. Mirror symmetry is often used in:
  - a) Storybooks
  - b) Digital clocks
  - c) Kaleidoscope designs
  - d) Thermometers
5. Origami designs often show symmetry because:
  - a) They are made with sticky notes
  - b) The folds divide paper equally
  - c) They are colored from both sides
  - d) They are made using rulers

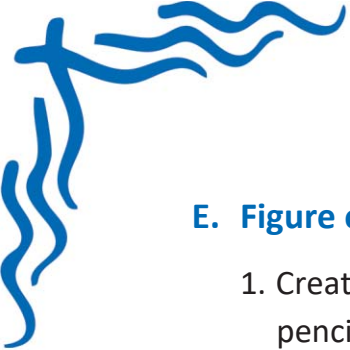
### B. Write the Missing Terms to Complete the Sentences:

1. A \_\_\_\_\_ is an instrument that uses mirror reflections to create symmetrical patterns.
2. Mandala art shows \_\_\_\_\_ symmetry in circular designs.
3. Paper snowflakes usually have \_\_\_\_\_ symmetry lines.
4. The traditional Indian art form that shows symmetrical beauty is called \_\_\_\_\_.
5. A pattern that repeats with symmetry is known as a \_\_\_\_\_ design.

### D. Mark each sentence with a True (✓) or False (X):

1. Symmetrical designs can be found in rangoli, mandala, and tile art.
2. All paper folding activities create asymmetrical figures.
3. Butterflies and human faces are natural examples of symmetry.
4. Mirror reflections are used in creating kaleidoscope patterns.
5. Symmetry cannot be used in creative drawing activities.

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**E. Figure out the answers to these questions:**

1. Create your own symmetrical rangoli design on graph paper using colored pencils.
2. Observe a tile pattern in your home or school. Sketch it and draw all visible lines of symmetry.
3. Fold a square paper into half and cut a triangle along the folded edge. Open the paper and describe the figure formed.
4. Collect any two symmetrical objects from home and describe how symmetry is visible in each.
5. Draw a butterfly and mark its line of symmetry clearly.
6. Use a mirror and place it on the edge of a half-drawn figure. What do you observe? Write a short explanation.

**F. Challenge yourself with these questions:**

1. Create a basic design using a compass and show symmetry in it.
2. Draw a kite and design it symmetrically. Fold to test its symmetry.
3. Make a collage using symmetrical shapes from magazines or newspapers.
4. Use symmetry to design a creative school badge or logo.
5. Identify and list 3 symmetrical patterns used in architecture or monuments.
6. Imagine a new toy that is symmetrical in design. Draw and label its parts.

**G. Write the vertical, horizontal, both or no line of symmetry for each of the letters given below:**

B E H J K P T

**H. Write any four letters of English alphabet, which have:**

1. Only horizontal line(s) of symmetry
2. Only vertical line(s) of symmetry
3. Both horizontal and vertical line(s) of symmetry
4. No line of symmetry