

Maths-7

Chapter 11: Symmetry –Worksheet

A. Multiple Choice Questions (MCQs)

- 1. A figure that can be folded into two equal halves is called:**
A) Rotational B) Symmetrical C) Asymmetrical D) Circular
- 2. The line that divides a figure into two equal parts is called:**
A) Mirror line B) Axis of symmetry C) Diameter D) Bisector
- 3. A circle has _____ lines of symmetry:**
A) 0 B) 1 C) 2 D) Infinite
- 4. A square has how many lines of symmetry?**
A) 2 B) 3 C) 4 D) 8
- 5. Which letter has horizontal line of symmetry?**
A) A B) C C) B D) E

B. Fill in the Blanks

1. A figure that does not have any line of symmetry is called _____.
2. A rectangle has _____ lines of symmetry.
3. The line of symmetry is also called the _____ line.
4. A regular pentagon has _____ lines of symmetry.
5. A figure has rotational symmetry if it looks the same after a _____.

C. Short Answer Questions

1. What is line of symmetry?
2. Draw and name one figure that has exactly 1 line of symmetry.
3. How many lines of symmetry does an equilateral triangle have?
4. Name two English letters that have vertical line of symmetry.
5. Explain rotational symmetry with an example.

D. Application-Based Questions

1. A pattern repeats after every $1/4$ turn. What is its order of rotational symmetry?
2. A star shape has 5 lines of symmetry. Is it a regular figure? Why?
3. A student folds a paper shape and finds both halves exactly overlapping. What can you say about the figure?
4. A logo looks the same after a half-turn. What is its rotational symmetry order?
5. A triangle has no equal sides and unequal angles. How many lines of symmetry does it have?