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## CBSE Class 7 Maths Notes Chapter 14

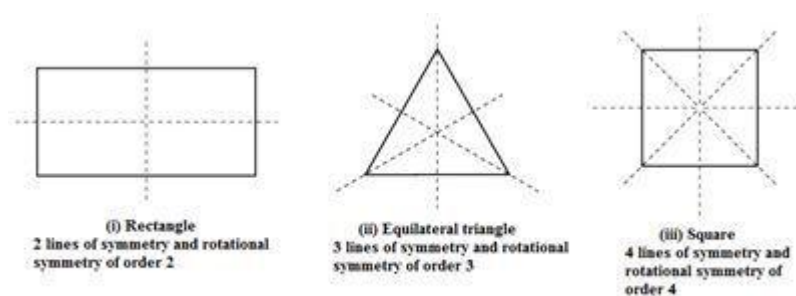
### Line of Symmetry

A form is said to have symmetry when it entirely coincides with another shape.

One might also notice symmetry inside a form. One aspect of a shape is considered to have symmetry within it when two aspects coincide.

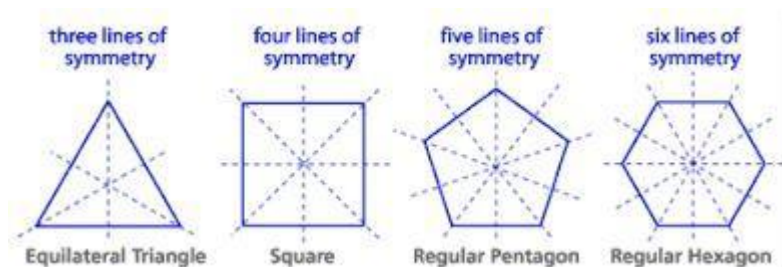
A line of symmetry is the line that splits a form into two identical sections.

As an illustration, the dotted line in the picture below represents the line of symmetry, and the left and right halves appear to be identical or symmetrical.



### Lines of Symmetry for Regular polygon

Polygons classified as regular have equal side lengths and angle measurements.



Lines of symmetry in regular polygons are equivalent to their sides.

As an illustration:

- Three sides and three lines of symmetry make up a triangle.
- Four sides and four lines of symmetry make up a square.
- Five sides and five lines of symmetry make up a regular pentagon.
- Six sides and six lines of symmetry make up a regular hexagon.

## Rotational Symmetry

Rotational symmetry is the state in which a shape remains precisely the same after being rotated at a specific angle about its axis, either clockwise or anticlockwise.

The term "centre of rotation" refers to the fixed point through which the shape is rotated.

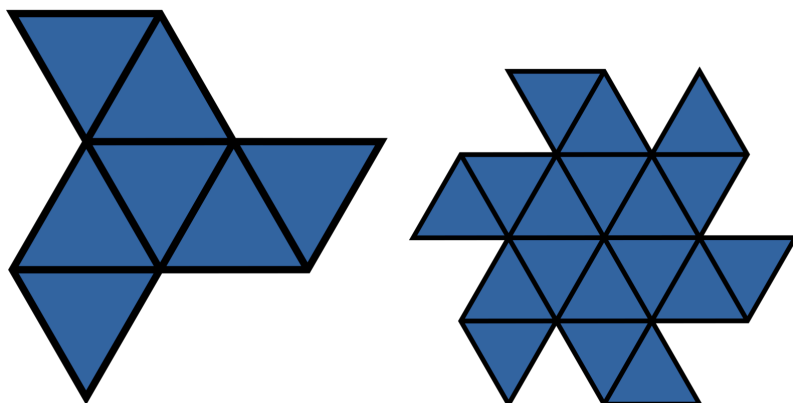
The term "angle of rotation" refers to the angle at which rotational symmetry appears.

Order of rotational symmetry is the number of times a form appears the same when rotated.

As an illustration, the square's rotational symmetry order is 4.

## Line Symmetry and Rotational Symmetry

Certain forms possess both rotational and line symmetry.



A perfect example of this kind of object is a circle, which exhibits rotational symmetry at any angle and infinite line symmetry around its centre.

Certain alphabets, like H, O, I, and X, exhibit both rotational and line symmetry.

## Benefits of CBSE Class 7 Maths Notes Chapter 14

With the help of our Revision Notes for Class 7 Maths Chapter 14 Symmetry, go on an exciting mathematical exploration.

Customised specifically for you, these notes function as amiable guides, breaking down the complex realm of symmetry into comprehensible portions.

**1. Conceptual Summaries:** Quickly understand the fundamentals of symmetry and reveal the elegance of balanced designs.

**2. Simplified Understanding:** Convey difficult ideas into understandable insights by handling the complexity of symmetry with ease.

**3. Last-Minute Symmetry Mastery:** Review notes will help you make sure you understand the concept of symmetry and are a useful tool while preparing for your final test.

**4. Improved Memory Retention:** Combine your knowledge of important symmetry principles and strengthen them in your long-term memory.