

BHARATH COACHING CENTRE

6th cbse

Maths

Total: 40

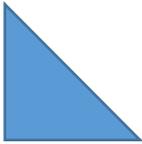
Symmetry

Time: 45 mins

SECTION-A

$$1 \times 6 = 6$$

1. How many lines of symmetry does the figure have?



2. The number of lines of symmetry of compass is....
3. A line segment is symmetrical about its bisector.
4. Rotation turns an object about a fixed point. This fixed point is the
5. How many lines of symmetry are there in a regular hexagon?
6. The number of capital letters of English alphabets having no line of symmetry is.....

SECTION-B

$$2 \times 5 = 10$$

1. Define line of symmetry.
2. What is reflection symmetry?
3. If a figure has two or more lines of symmetry, should it have rotational symmetry of order more than 1?
4. Name figures with two lines of symmetry.
5. Write the letters of the word "MATHEMATICS", which have no line of symmetry.

SECTION-C

$$4 \times 3 = 12$$

1. Give some of the applications of symmetry.

2. State the number of lines of symmetry for the following:
 - a. An isosceles triangle
 - b. A circle
3. What is symmetry? Name all type of symmetry.
4. List the numbers from 0 to 9 and show how many of them are symmetrical. Also draw their axis of symmetry.

SECTION-D

$$3 \times 4 = 12$$

1. Can you draw a triangle which has?
 - a. Exactly one line of symmetry.
 - b. Exactly two line of symmetry.
 - c. Exactly three line of symmetry.
 - d. No lines of symmetry.
2. What do you mean by symmetrical figures? Give examples.
3. Draw a rough figure of the following shapes and show how many lines of symmetry they possess:
 - a. Kite
 - b. Scalene triangle
 - c. Angle
 - d. Semicircle
 - e. Arrow head.