

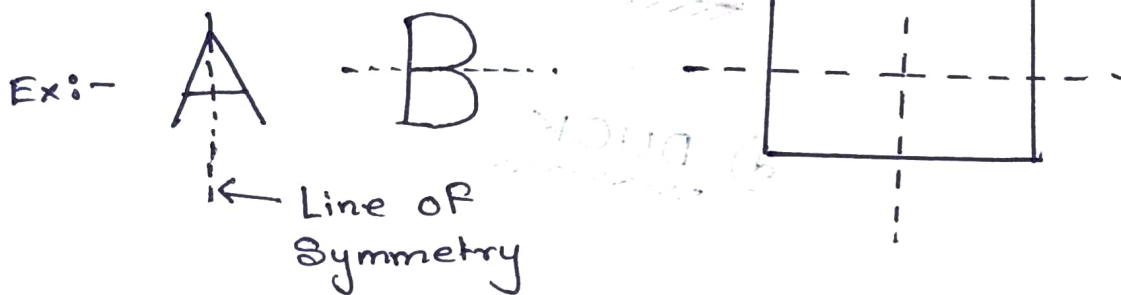
SYMMETRY

An object is said to be symmetrical or shows the property of symmetry if the two halves of the object are exactly the same (identical).

⊙ Line of Symmetry :-

The line in the centre that divides the object into equal halves.

NOTE :- Line of symmetry is an imaginary line so it is drawn using a dotted line.

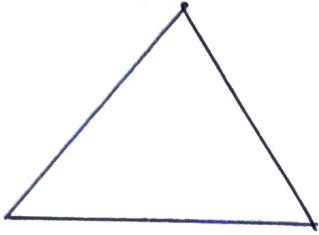


- Symmetrical Object - Objects which are symmetrical.
- Asymmetrical Object - Objects which are not symmetrical i.e., do not have any line of symmetry or cannot be divided into equal halves.

WORKSHEET

1. Identify the figures as either symmetrical or asymmetrical and if symmetrical draw the line(s) of symmetry.

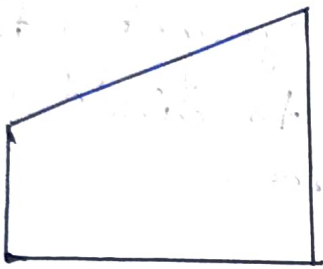
a)



b)



c)

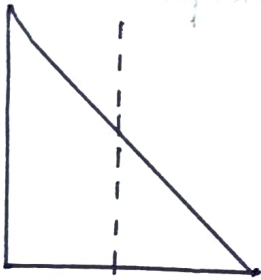


d)

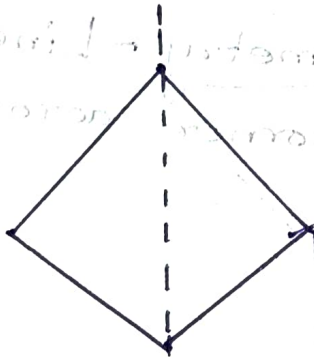


2. Identify the shapes with the correct line of symmetry.

a)



b)



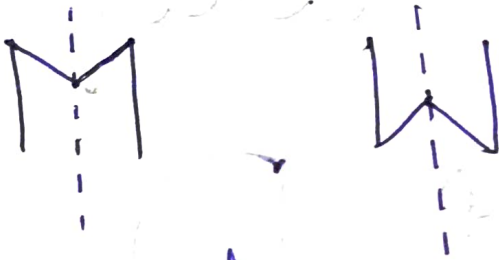
3. Write any three letters of English alphabet that are symmetrical and draw their line(s) of symmetry.

Types of Lines of Symmetry

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- Vertical line of Symmetry:- Lines of symmetry that goes from top to bottom (Vertically) to divide a shape into equal left and right halves.

Ex:-



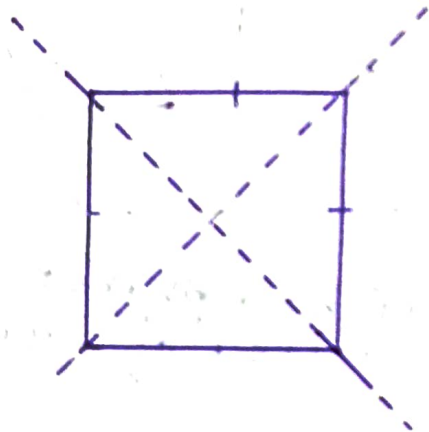
- Horizontal line of symmetry - Line of symmetry that goes from left to right (horizontally) to divide a shape into equal top and bottom halves.

Ex -



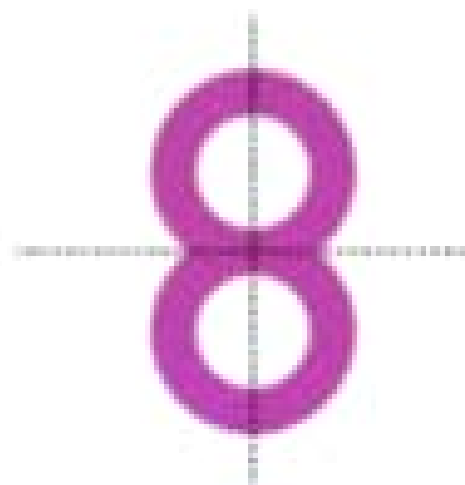
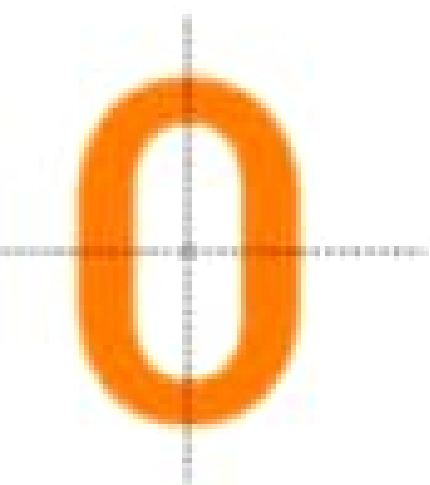
- Diagonal line of symmetry - Line of symmetry that goes from corner to corner across a shape.

Ex:



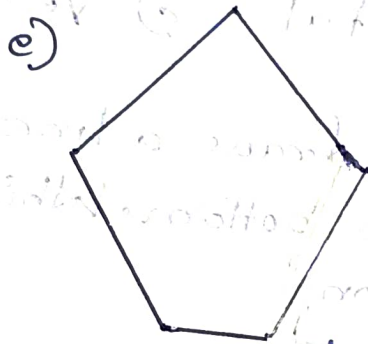
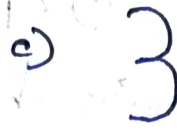
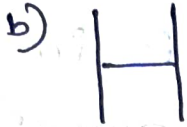
Letter	Line of symmetry		Letter	Line of symmetry		Letter	Line of symmetry
	Only 1			No line of symmetry			Only 1
	Only 1			No line of symmetry			No line of symmetry
	Only 1			2 lines of symmetry			Only 1
	Only 1			2 lines of symmetry			It looks like but it is not symmetrical.
	Only 1			No line of symmetry			Infinite number of lines of symmetry

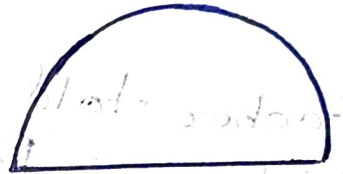
Symmetry Line in Numbers



WORK SHEET

1) Draw and identify the line(s) of symmetry of the following figure.



f) 

- 2) Draw a geometrical shape which has all three types of symmetry.
- 3) Which 2D shape has infinite line(s) of symmetry.

WORKSHEET

- 1) Any symmetrical object has _____ halves.
a) 3 b) 2 c) 4
- 2) The garden of Rima's house is in 'Y' shape.
(This shape has _____ line of symmetry.
a) Diagonal b) Horizontal c) Vertical
- 3) Teacher told Mona to draw a line of symmetry, which goes from top to bottom. Which line of symmetry she has drawn?
a) Horizontal b) Vertical c) Diagonal
- 4) Ruhi and Rohit have drawn, the line of symmetry of the letter 'A'. Ruhi has drawn vertical line of symmetry and Rohit has drawn horizontal line of symmetry. Who is correct?
a) Rohit b) Ruhi
- 5) Line of symmetry is _____ line.
a) Real line b) Imaginary line.

3) Find the water image:-

