

Exercise 13.1

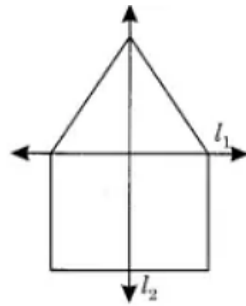
1. List any four symmetrical objects from your home or school.

Ans. The following objects can be symmetrical:

- (a) Notebook (b) Dining table (c) A blackboard
(d) Wall clock (e) A pair of scissors

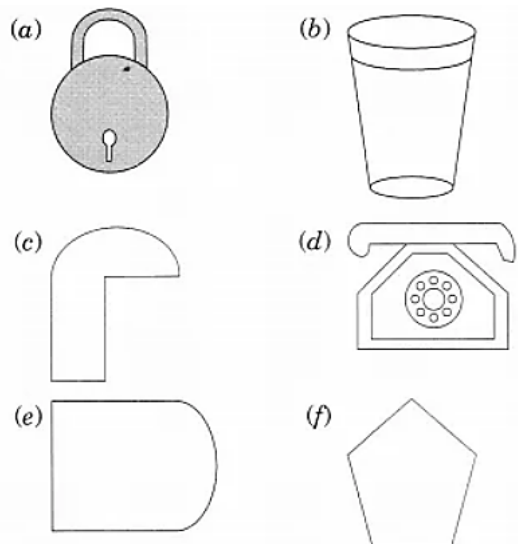
2. For the given figure, which one is the mirror line, l_1 or l_2 ?

Ans. In the following figure, l_2 is the mirror line

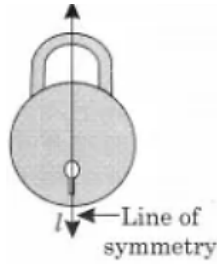


3. Identify the shapes given below. Check whether they are symmetrical or not.

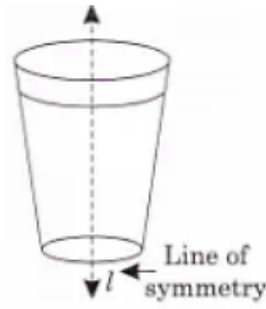
Draw the line of symmetry as well.



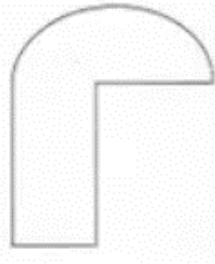
Ans. (a) The given symmetric figure is a lock where the vertical line 'l' is the line of symmetry.



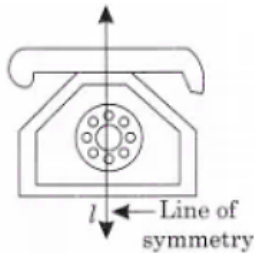
(b) The given figure is a symmetrical bucket in which the vertical line 'l' is the line of symmetry.



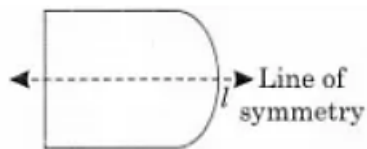
(c) The given figure is not symmetrical.



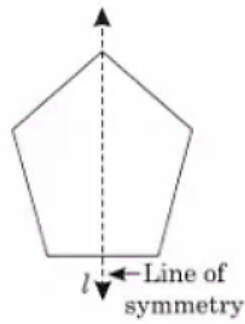
(d) The given figure is a symmetric telephone in which vertical line l is called the line of symmetry.



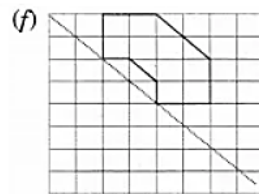
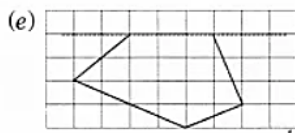
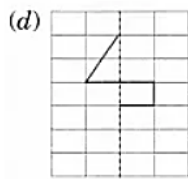
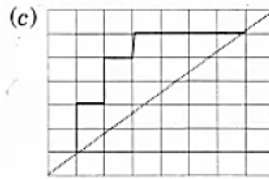
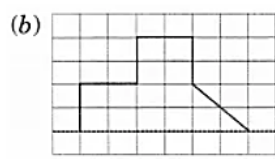
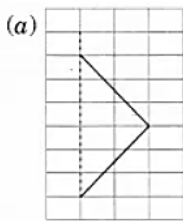
(e) The given figure is symmetrical. Horizontal line l is called the line of symmetry.



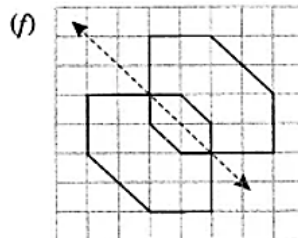
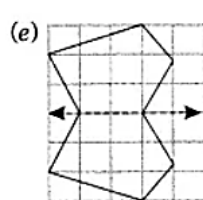
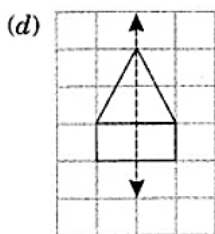
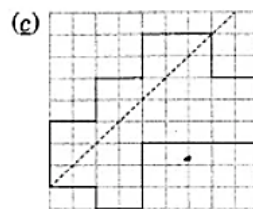
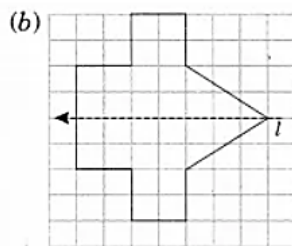
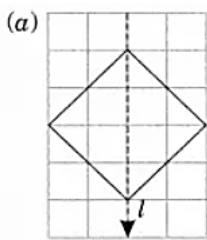
(f) The given figure is symmetrical. Vertical line l is called its line of symmetry.



4. Copy the following on a squared paper. A square paper is what you would have used in your arithmetic notebook in earlier classes. Then complete them such that the dotted line is the line of symmetry.



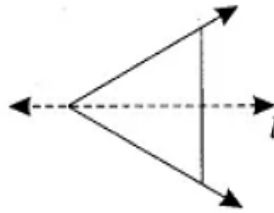
Ans.



5. In the figure, l is the line of symmetry. Complete the diagram to make it symmetric.

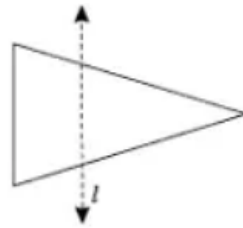


Ans. The completed figure is as follows:



6. In the figure, l is the line of symmetry.

Draw the image of a triangle and complete the diagram so that it becomes symmetric.



Ans. The symmetric figure is given as follows.

