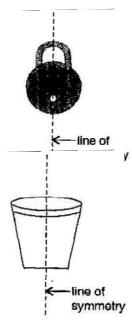


- 5. In the figure, *l* is the line of symmetry. Complete the diagram to make it symmetric.
- 6. In the figure, *l* is the line of symmetry. Draw the image of the triangle and complete the diagram, so that it becomes symmetric.

Class –VI Mathematics (Ex. 13.1) Answers

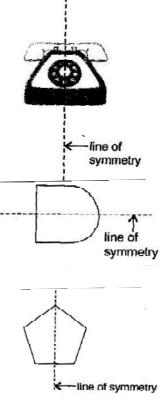
- 1. Notebook, Blackboard, Glass, Inkpot.
- 2. l_2 is the mirror line as both sides of the lines are symmetric.
- 3. (a) Symmetric

(b) Symmetric

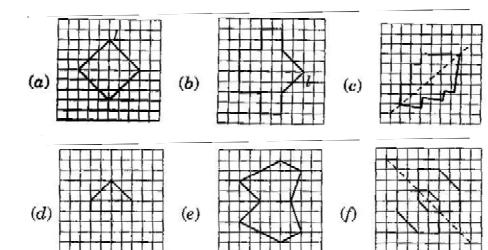


(c) Not symmetric(d) Symmetric

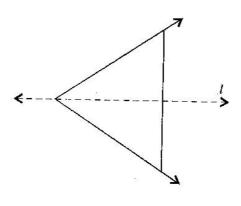
(e) Symmetric



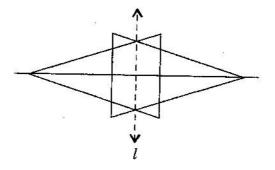
4. Sol.



5. Sol.

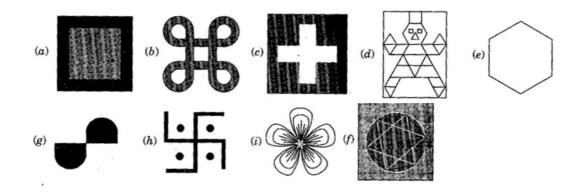


6. Sol.

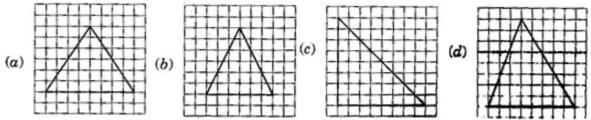


Class –VI Mathematics (Ex. 13.2) Questions

1. Find the number of lines of symmetry for each of the following shapes:



2. Copy the triangle in each of the following figures, on squared paper. In each case, draw the line(s) of symmetry. If any and identity the type of triangle. (Some of you may like to trace the figures and try paper-folding first!)



3. Complete the following table:

Shape	Rough figure	No. of lines of symmetry
Equilateral triangle		3
Square		
Rectangle		
Isosceles triangle		
Rhombus		
Circle		

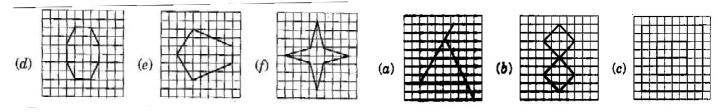
- 4. Can you draw a triangle which has:(a) exactly one line of symmetry?
 - (b) exactly two lines of symmetry?

(c) exactly three lines of symmetry?(d) no lines of symmetry?Sketch a rough figure in each case.

- 5. On a squared paper, sketch the following:
 - (a) A triangle with a horizontal line of symmetry but no vertical line of symmetry.
 - (b) A quadrilateral with both horizontal and vertical lines of symmetry.
 - (c) A quadrilateral with a horizontal line of symmetry but no vertical line of symmetry.
 - (d) A hexagon with exactly with two lines of symmetry.
 - (e) A hexagon with six lines of symmetry.

(Hint: It will be helpful if you first draw the lines of symmetry and then complete the figures)

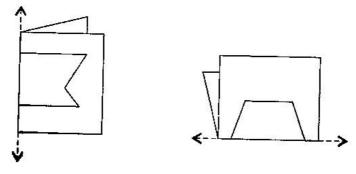
6. Trace each figure and draw the lines of symmetry, if any:



- 7. Consider the letters of English alphabets A to Z. List among them the letters which have:
 - (a) vertical lines of symmetry (like A)
 - (b) horizontal lines of symmetry (like B)
 - (c) no lines of symmetry (like Q)

++	-	11		+	+
			t	Ħ	1
	17		ł	+	+
	_7	H		F	Ŧ
++	100		-		+•

8. Given here are figures of a few folded sheets and designs drawn about the fold. In each case, draw a rough diagram of the complete figure that would be seen when the design is cut off.



	Class –VI Mathematics (Ex. 13.2) Answers						
1.	(a) 4 (g) 0	(b) 4 (h) 0	(c) 4 (i) 3	(d) 1	(e) 6	(f) 4	
2.	Sol.				- <u></u>		
	(a) l_1 is the	e line of symme	try.				
	(b) l_1 is the	e line of symme	try.		411 N 11		
	(c) l_1 is the	e line of symme	try.			1 HIN	
	(d) No line	of symmetry.		(<i>a</i>)	(<i>b</i>)	(c)	<i>(d)</i>

Shape	Rough figure	No. of lines of symmetry
Equilateral triangle		3
Square		4
Rectangle		2
Isosceles triangle		1
Rhombus		2
Circle		Infinite

4. (a) Yes, Isosceles triangle

(d) Yes, Scalene triangle

(b) No such triangle cannot be formed.(c) Yes, Equilateral triangle

B'

Al

 hl_1

7l2

≤ l3

(a)

5.

(c)

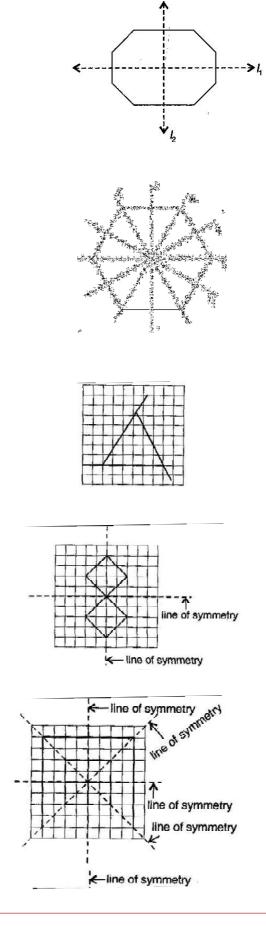
(b)

(d)

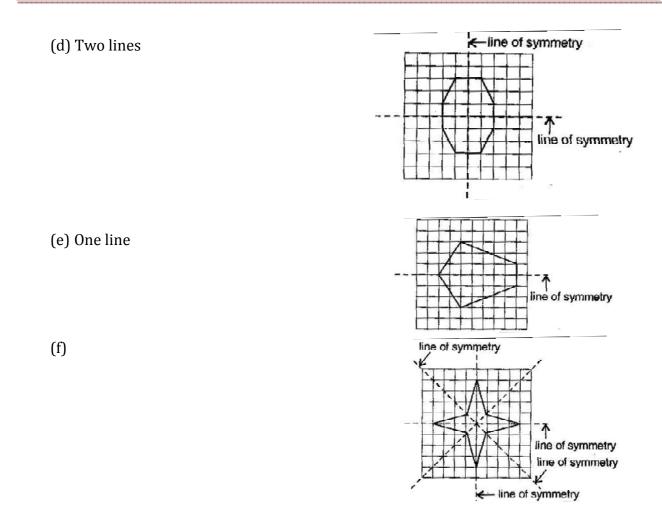
(e)

6. (a) No line

(b) Two lines

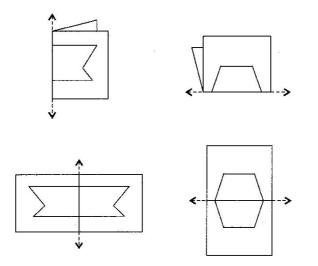


(c) Four lines



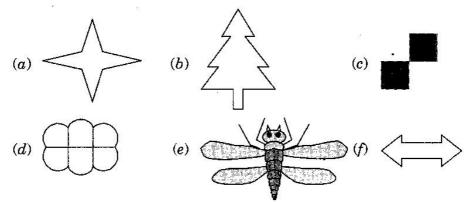
7. Vertical lines: Horizontal lines: No line of symmetry: A, H, I, M, O, T, U, V, W, X, Y B, C, D, E, H, I, K, O, X F, G, J, I, N, P, Q, R, S, Z

8. Sol.

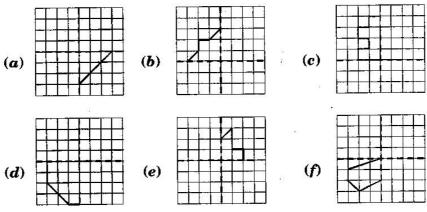


Class –VI Mathematics (Ex. 13.2) Questions

1. Find the number of lines of symmetry in each of the following shapes. How will you check your answer?

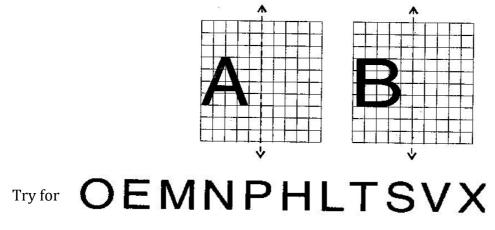


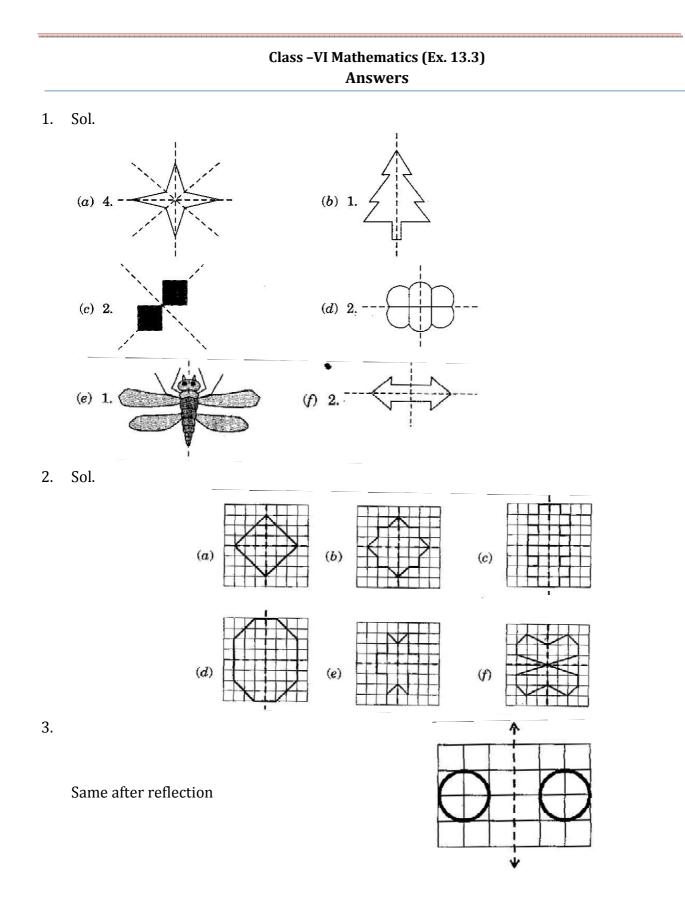
2. Copy the following drawing on squared paper. Complete each one of them such that the resulting figure has two dotted lines as two lines of symmetry.



How did you go about completing the picture?

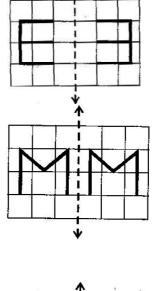
3. In each figure below, a letter of alphabet is shown along with a vertical line. Take the mirror image of the letter in the given line. Find which letters look the same after reflection (i.e., which letters look the same in the image) and which do not. Can you guess why?





Different after reflection

Same after reflection



Ŷ

Different after reflection

Different after reflection

Same after reflection

Different after reflection

