



CLASS :IV  
 Prepared by -Rajni Y.

SUBJECT: Maths  
 L –13 Symmetry and Patterns

Pre- activity - Let's Begin (Page no- 186) done in text book.

T.B. Page no- 186

**Let's Begin**



Nyra, look at this butterfly. Do you notice a pattern on it?



Yes, Eva! I do see a pattern. Both the wings of the butterfly have the same pattern.



Look at the figure in each question to answer.

a Does this onion have the same pattern on both its halves?  
 Yes/No



b Can this ginger be cut into two halves with the same pattern?  
 Yes/No



c This leaf can be cut into \_\_\_\_ pieces that will be similar to each other.



d Complete the pattern.



e Tick (✓) the image that is divided into two similar and equal portions.



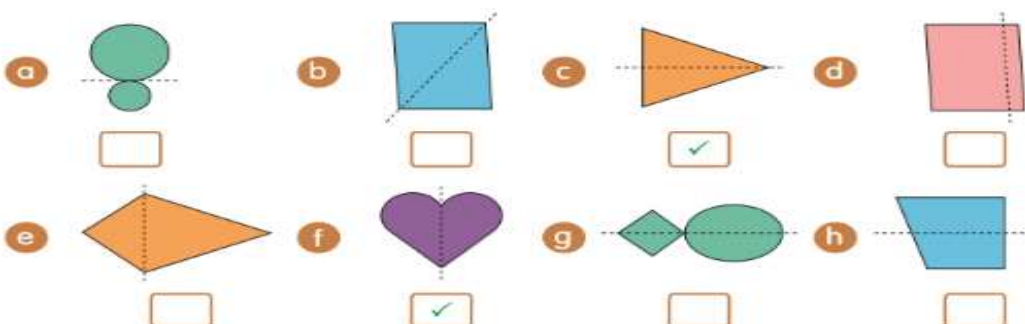
T.B.-Page no -188

**Pictorial Stage**

1 Tick (✓) the figures that are non-symmetrical.



2 Tick (✓) the figures that is showing the correct line of symmetry.



**Abstract Stage**

1 Tick (✓) the figures that are symmetrical and cross out (x) the non-symmetrical figures.

a		b		c		d	
	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>


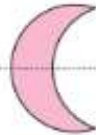
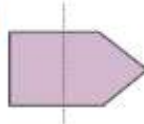

2 Identify whether the given figure is symmetrical or not. If yes, draw the line of symmetry.

Answer: **Yes**



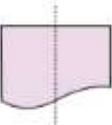

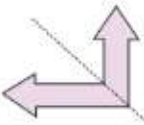



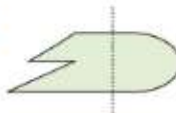
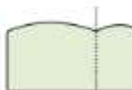
**Pictorial Stage**

1 Tick (✓) the figures that show the correct line of symmetry.

a		b		c		d	
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>

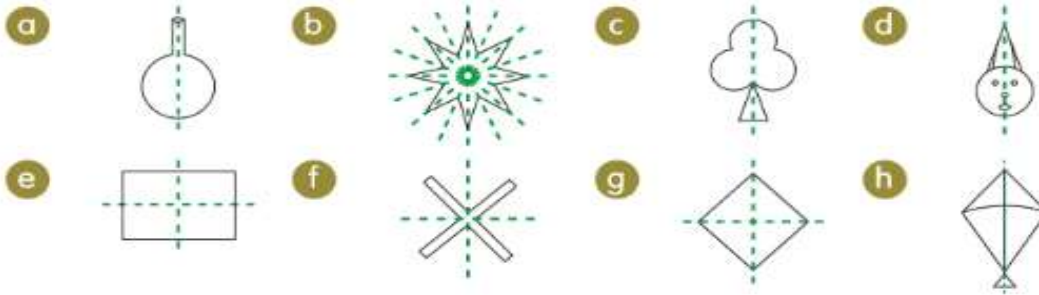
**T.B.- Page no-191**

2 Do the dotted lines represent the correct lines of symmetry? Yes/No

a		b		c		d	
	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
e		f		g		h	
	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

## Abstract Stage

1 Draw all the possible lines of symmetry for the following figures.



2 List all the letters of English alphabet which have

- a no lines of symmetry. b at least 1 line of symmetry.

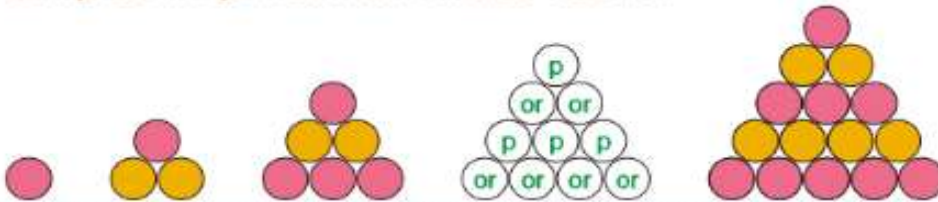
F

C

T.B.- Page no-193

## Pictorial Stage

1 Complete the pattern with suitable colours.



2 Make a pattern using the given blocks.



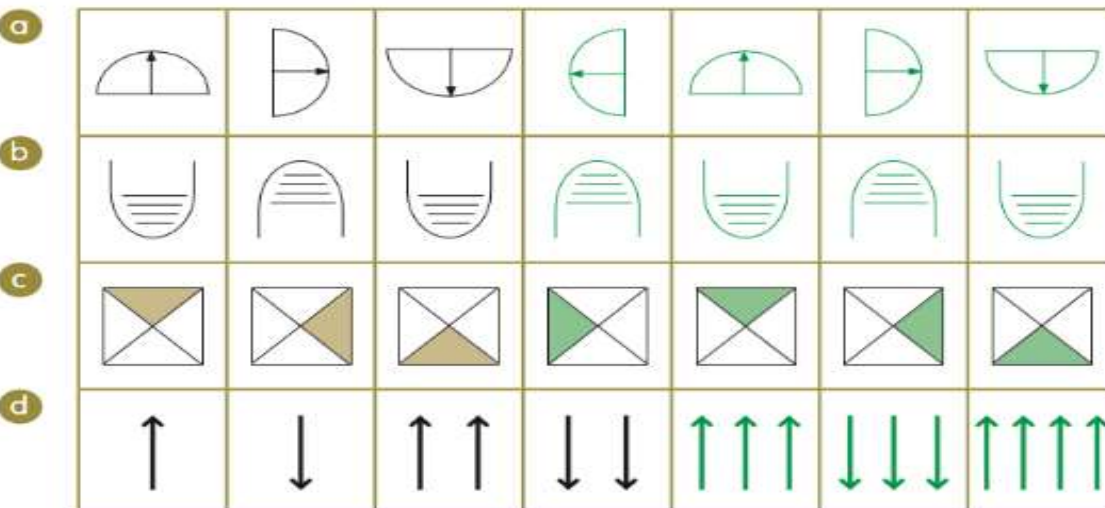
Answer: Answer may vary.

3 Complete the patterns.

- a QR, OP, MN, KL, IJ, GH, EF      b 10, 20, 40, 50, 70, 80, 100

## Abstract Stage

1 Complete the rotating patterns.



2 Complete the missing terms in the given series.

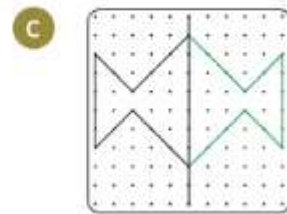
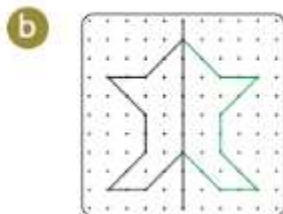
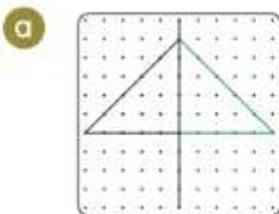
a 51, 56, 61, 66, 71, 76, 81

b 12A, 13B, 14C, 15D, 16E, 17F

c 

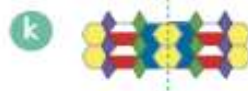
d DEE, EFF, FGG, GHH, HII, IJJ, JKK

3 Complete the missing half of the symmetrical figures.

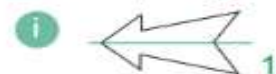


**Blooming Questions**

1 Draw a line of symmetry for each of the following. If a shape has no line of symmetry, cross (x) it out.



2 Draw lines of symmetry for the following. Also, write the number of lines of symmetry they have.



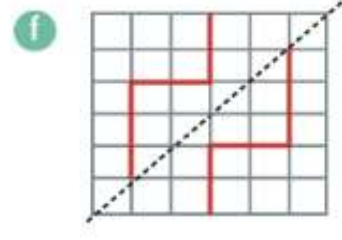
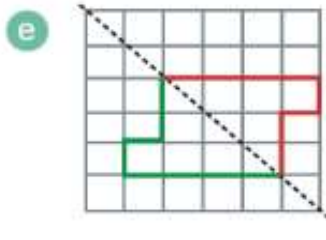
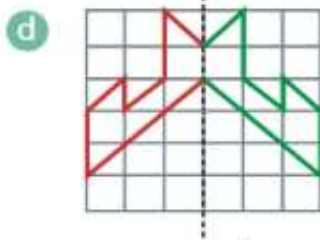
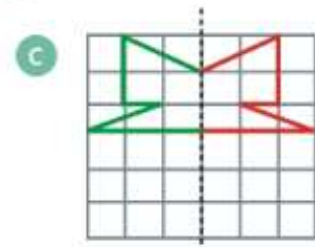
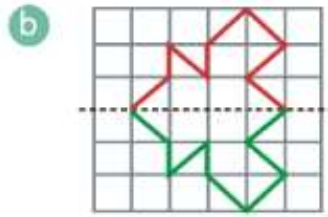
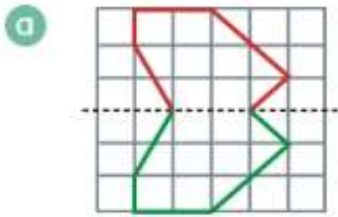
3 Complete the patterns.



b A, Z, C, Y, E, X, G, W

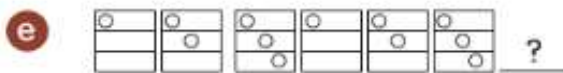
c 6, F, 8, H, 10, J, 12, L

4 Complete the shapes according to the line of symmetry.



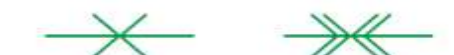
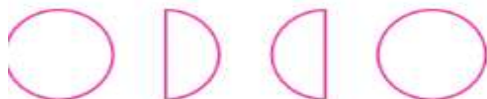
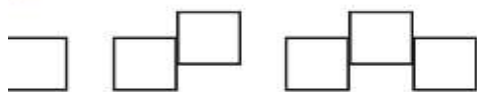
### Mental Maths

Circle the shape that comes next in the following patterns.



### Post activity-

Observe the patterns and draw the next two shapes to extend the patterns.



Teacher

Hod

Coordinator

Principal











