

## Mirror images

Mirror Image is also called as Vertical Plane. Have you ever observed your mirror image?

Your right becomes left and left becomes right. Right?

Ok, now there is a technical definition for Mirror Images in Reasoning: Please keep this definition in your mind. In the mirror image, the RIGHT part of the object appears at the LEFT side and vice-versa. But the UPPER and LOWER parts remain constant. Here questions are based on criteria that few figures are given and you have to find out of which one is exact image of the given figure by the mirror placed aside.

This image formation is based on the principle of 'LATERAL INVERSION' which implies that size of the image is equal to the size of the object but both sides are changed. The left portion of the object is seen on the right portion and right portion of the object is seen on the left portion. For example mirror image of ABC = CBA.

### Note

Using reflections in photography can lead to some amazing effects and beautiful images. Using water, windows, mirrors or any sort of reflective surface can change an image into a work of art. The wonderful thing about using reflections when taking photos is that they can completely alter the image from something fairly straightforward to something richer or abstract or otherwise more artistic.

Sometimes reflections can be annoying and certainly not artistic. But creativity and good-quality photos depend on the photographer being able to see things differently, rather than seeing only one part of a larger whole.

Also, using reflected light can vastly improve the quality of lighting available. Diffused light is generally better for taking photos, and using reflected light, either as the main source of light or for highlighting, is an excellent way to capture diffused light.

**Note:** There are '11' letters in English Alphabet which have identical mirror images as A, H, I, M, O, T, U, V, W, X, Y

## I. Mirror images of Numbers.

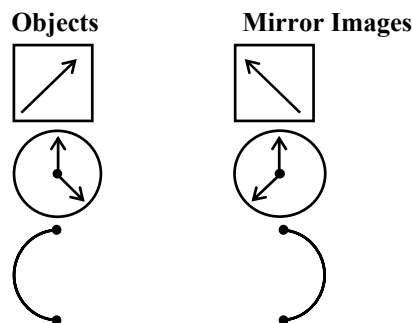
0	0
1	1
2	2
3	3
4	4
5	5
6	9
7	7
8	8
9	6
10	01

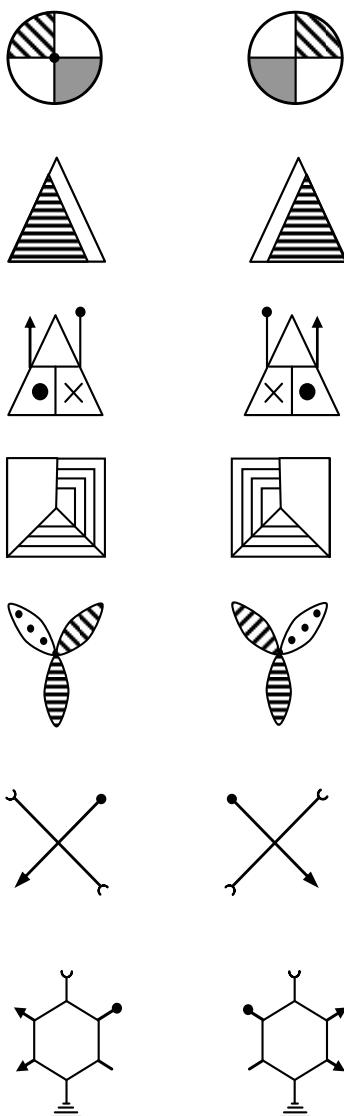
## II. Mirror Images of capital letters and small letters.

A	A	N	N	a	a	n	n
B	B	O	O	b	b	o	o
C	C	P	P	c	c	p	p
D	D	Q	Q	d	d	q	q
E	E	R	R	e	e	r	r
F	F	S	S	f	f	s	s
G	G	T	T	g	g	t	t
H	H	U	U	h	h	u	u
I	I	V	V	i	i	v	v
J	J	W	W	j	j	w	w
K	K	X	X	k	k	x	x
L	L	Y	Y	l	l	y	y
M	M	Z	Z	m	m	z	z

Reflection of an object into the mirror is called mirror-image. It is obtained by inverting an object laterally i.e. towards the sides. Example of lateral inversions of few figures and words are given below:

### Objects having Different Mirror Images:





#### Mirror images of certain words and numbers:

Words	Mirror Images
PREDICTION	NOITCIREP
HOSPITAL	LATIPSOH
DARPAN	NARPAD
STRIGENT	TNIEGRTS
OPULENT	TNEUJPO
SARCASM	MZARCSM
LIBERAL	LIBERAL
OFFENCE	OFFENCE
ADVANCE	EVNACD
IMAGES	SEGAZI

Numbers	Mirror Images
32596	96523
8932	2398
868	868
786	987
10190	09101
5693	3965
8964	4698
7362	2637
8593	3958
7839	9387

**Water images:** Water Images in non-verbal reasoning is same as Mirror Images method. Basically Water Image shortcuts and tricks are like flapping figure.

Water image is just a reflection where top and bottom part of the images changed where left and right side of image remain same. In **Mirror image** left side and right side changed vice-versa where top and bottom remain same. It is the inverted image obtained by turning the object upside down.

**Note:** There are '7' letters in English Alphabet which have identical water-images as C, D, E, H, I, O, X

#### Water Images of Capital Letters

Letters	A B C D E F G H I J K L M
Water-Image	∇ B C D E F G H I J K L M
Letters	N O P Q R S T U V W X Y Z
Water-Image	∇ O P Q R S T U V W X Y Z

#### Water Images of Small Letters

Letters	a b c d e f g h i j k l m
Water-Image	∇ p c q e f g h i j k l m
Letters	n o p q r s t u v w x y z
Water-Image	∇ o b d f s t u v w x y z

#### Water Images of Number

Number	0 1 2 3 4 5 6 7 8 9
Water-Image	0 1 2 3 4 5 6 7 8 9

## Multiple Choice Questions

**Directions (1 to 19):** In each of the following questions, choose the correct mirror image from alternatives A, B, C and D of the word/figure.

1. JUDGEMENT

- a. TNEMEGDUJ                      b. TJUDGEMEN  
c. TИEMEGDUJ                    d. DJUGEMNET

2. VERBAL

- a. LABREV                          b. LRVEBA  
c. REVBAL                        d. LABREV

3. VINAYAKA

- a. INVAYAKA                      b. AKAYANIV  
c. AKAYANIV                    d. AKAYANIV

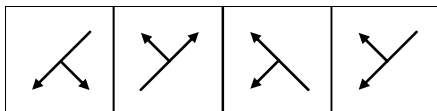
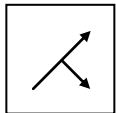
4. CONSOLIDATE

- a. ETADILOSNOC                      b. ETADILOSNOC  
c. TAECONSOLID                    d. OCNSOLIDATE

5. TARAIN1014A

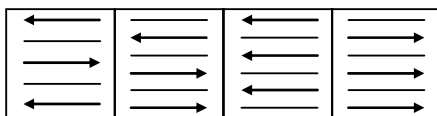
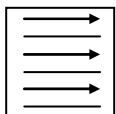
- a. AИ101NIAAT                      b. AИ101NIAAT  
c. AИ10ARTAINI                    d. AИ10ARTAINI

6.



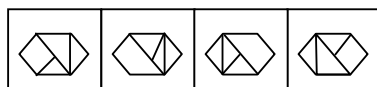
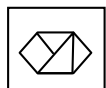
a.                      b.                      c.                      d.

7.



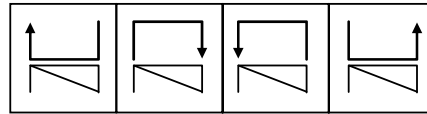
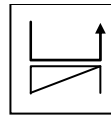
a.                      b.                      c.                      d.

8.



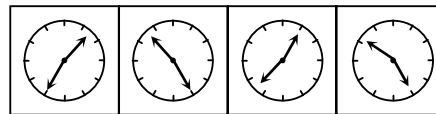
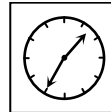
a.                      b.                      c.                      d.

9.



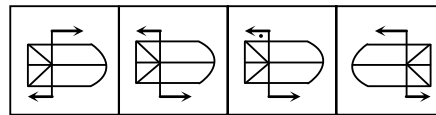
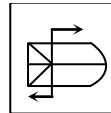
a.                      b.                      c.                      d.

10.



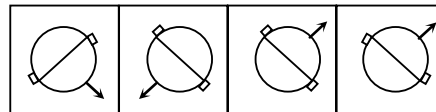
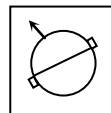
a.                      b.                      c.                      d.

11.



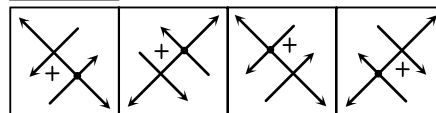
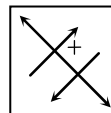
a.                      b.                      c.                      d.

12.



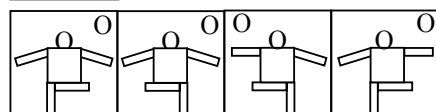
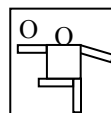
a.                      b.                      c.                      d.

13.



a.                      b.                      c.                      d.

14.











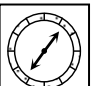

a.                      b.                      c.                      d.

15. DRAPER Y E I S 5 7 3 9  
 a. D R A P E R Y E I S 2 7 3 9  
 b. D R A P E R Y E I S 2 7 3 9  
 c. D R A P E R Y E I S 2 7 3 9  
 d. D R A P E R Y E I S 2 7 3 9

16. 1 9 6 5 I N D O P A K  
 a. 1 9 6 5 I N D O P A K  
 b. 1 9 6 5 I N D O P A K  
 c. 1 9 6 5 I N D O P A K  
 d. 1 9 6 5 I N D O P A K

17. D L 9 C G 4 7 2 8  
 a. D L 9 C G 4 7 2 8  
 b. D L 9 C G 4 7 2 8  
 c. D L 9 C G 4 7 2 8  
 d. D L 9 C G 4 7 2 8

18.   
 a.   
 b.   
 c.   
 d. 

19.   
 a.   
 b.   
 c.   
 d. 

Directions (20 to 34): In each of the following questions, choose the correct water-images from alternatives A, B, C and D of the word/figure (X).

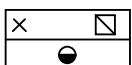
20. wrote  
 a. wrote  
 b. wrote  
 c. wrote  
 d. wrote

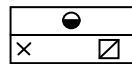
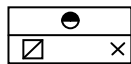
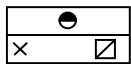
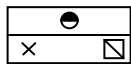

21. RAJ589DB  
 a. RAJ589DB  
 b. RAJ589DB  
 c. RAJ589DB  
 d. RAJ589DB

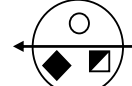
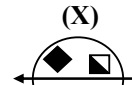
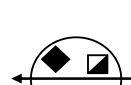
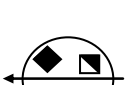

22. 50JA32DEO6  
 a. 50JA32DEO6  
 b. 50JA32DEO6  
 c. 50JA32DEO6  
 d. 50JA32DEO6

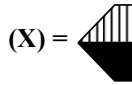


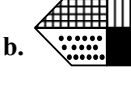

23. monday  
 a. monday  
 b. monday  
 c. monday  
 d. monday






24. 96FSH52  
 a. 96FSH52  
 b. 96FSH52  
 c. 96FSH52  
 d. 96FSH52


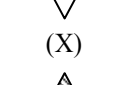





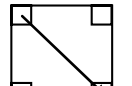
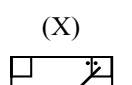

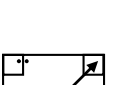
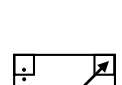
25.   
 a.   
 b.   
 c.   
 d. 

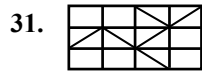
26. (X)   
 a.   
 b.   
 c.   
 d. 

27. (X) =   
 a.   
 b.   
 c.   
 d. 

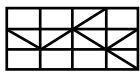
28. (X)   
 a.   
 b.   
 c.   
 d. 

29.   
 a.   
 b.   
 c.   
 d. 

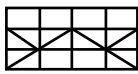
30. (X)   
 a.   
 b.   
 c.   
 d. 



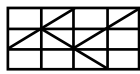
(X)



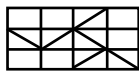
a.



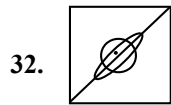
b.



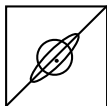
c.



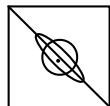
d.



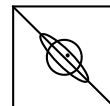
(X)



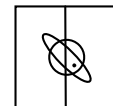
a.



b.



c.



d.



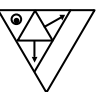
(X)



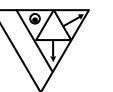
a.



b.



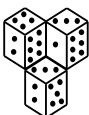
c.



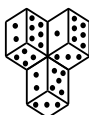
d.



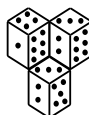
(X)



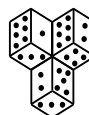
a.



b.

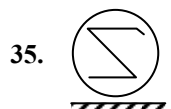


c.



d.

Directions (35 to 39) In the following questions, you have to visualise the image of the item (Letter/word / number/figure) in the water. The water source is below the item. Choose the water image from the alternatives.



(X)



a.



b.



c.



d.

36. JTVDF

a. LLAD

b. LLAD

c. LLAD

d. LLAD

37. 356274

a. 45982

b. 32954

c. 64854

d. 32054

38. CHICK

a. CHICK

b. KCHIC

(3) CHICK

d. CHICK

39. REFUND

a. DNUEE

b. REEUND

c. REEUND

d. REEUND

Direction (40 to 44) In the following questions you have to visualise the image of the item (Letter/word/number/figure) in the mirror. The mirror is below the item. Choose the mirror image from the alternatives.

40. 3609

a. 3609

b. 3609

c. 3609

d. 3609

41. NTSE

a. NTSE

b. NTSE

c. NTSE

d. NTSE

42. SIERT

a. SIERT

b. SIERT

c. SIERT

d. SIERT



43.



a.



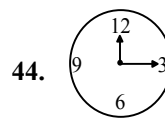
b.



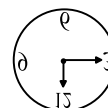
c.



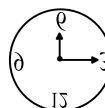
d.



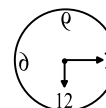
44.



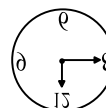
a.



b.



c.



d.

Direction (45 to 52): In the following questions you have to visualise the image of the item (figure, word, letter, number) in water. The water source is below the item. Choose the water image from the alternatives.

45. TL98dw

a. TL98dw

b. TL98dw

c. TL98dw

d. TL98dw

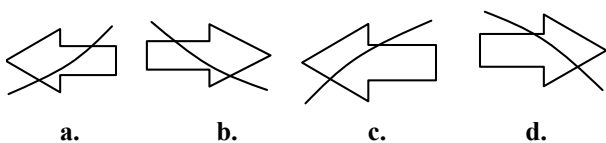
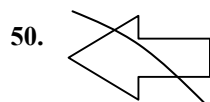
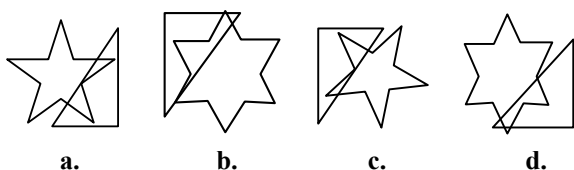
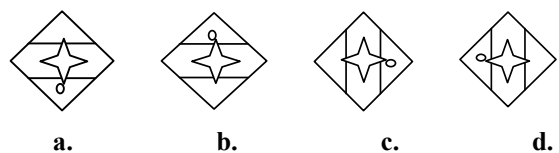
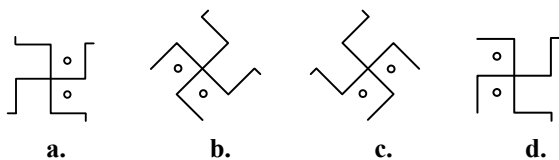
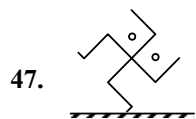
46. Player

a. Player

b. Player

c. Player

d. Player



51. RAJ589D8

a. K V 1 2 8 0 D 8

b. X V 1 2 8 9 D 8

c. K V 1 2 8 0 D 8

d. X V 1 5 8 6 D 8

52. a b 4 5 C D 6 7

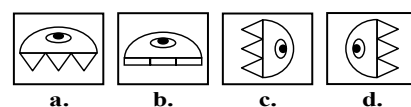
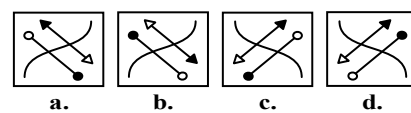
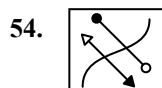
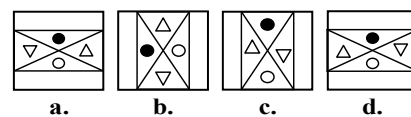
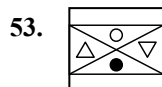
a. 9 P 4 2 C D 0 1

b. 1 0 D C 2 4 P 9

c. 1 0 D C 2 4 P 9

d. 9 P 4 2 C D 0 1

Direction (53 to 55): In each of the following questions, identify the water image of the given figure.

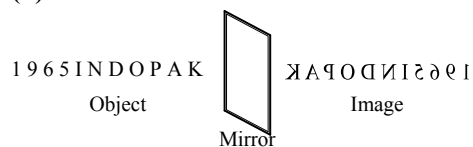


## ANSWERS

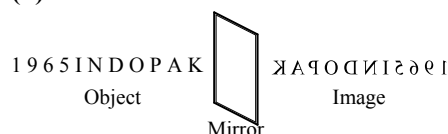
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
c	d	c	b	a	c	c	d	a	b
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
d	c	b	d	b	d	c	c	d	a
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
a	b	d	c	c	a	a	d	d	c
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
d	b	b	b	b	d	d	a	c	a
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
d	b	b	a	b	a	c	b	c	a
51.	52.	53.	54.	55.					
a	a	a	c	a					

## SOLUTIONS

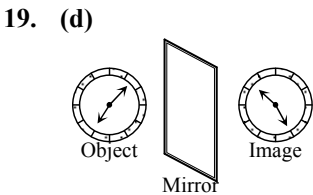
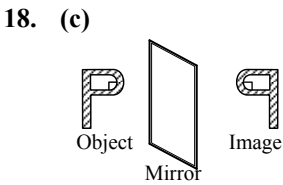
15. (b)



16. (d)



17. (c)    a b 4 5 C D 6 7    Object  
              9 p q 2 C D e Δ    Image



51. (a)    R A J 5 8 9 D 8    Object  
              K V 1 2 8 0 D 8    Image

52. (a)

