



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **VQAR-VERBAL QUANTITATIVE APTITUDE REASONING**

**IIYEAR/ IV SEMESTER**

1

### **UNIT 4 –NON- VERBAL REASONING**

### **TOPIC 2 -MIRROR IMAGE, WATER IMAGE**



## MIRROR IMAGE



Reference: <https://media.geeksforgeeks.org/wp-content/uploads/20220805134111/11.jpg>



# MIRROR IMAGE OF CAPITAL LETTER



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

Reference: <https://media.geeksforgeeks.org/wp-content/uploads/20220712224632/Screenshot20220712222915.jpg>



## MIRROR IMAGE OF SMALL LETTERS :



Letters	Mirror Image	Letters	Mirror Image	Letters	Mirror Image	Letters	Mirror Image
a	ɹ	h	ɹ	o	o	v	v
b	d	i	i	p	q	w	w
c	ɹ	j	j	q	p	x	x
d	b	k	k	r	i	y	y
e	e	l	l	s	z	z	z
f	f	m	m				
g	g	n	n				

<https://media.geeksforgeeks.org/wp-content/uploads/20220712224930/Screenshot20220712222948.jpg>



## MIRROR IMAGE OF NUMBERS :



8 is the only numeral that have the same mirror image as that of its original.

Numbers	Mirror Image	Numbers	Mirror Image	Numbers	Mirror Image
1	1	4	4	7	7
2	2	5	5	8	8
3	3	6	6	9	9

Reference : <https://media.geeksforgeeks.org/wp-content/uploads/20220712225321/Screenshot20220712205124.jpg>



## SHAPE MIRROR IMAGE



**The point of an object near the mirror will be always near the mirror image also.**

### **Clock-Based Mirror Images:**

Rule 1: If the time is between 1: 01 to 10: 59 (i.e 11: 00) then subtract the asked time from the 11: 60.

Rule 2: If time is between 11: 01 to 12 : 59 then subtract the asked time from the 23: 60





# TIPS AND TRICKS TO SOLVE MIRROR IMAGES QUESTIONS



## **Case 1: If the mirror is being placed at the top of the image**

If the mirror has been placed horizontally (meaning on top of the object) then the top and bottom part in the image will be changed, while the left and right side of the image remains the same. The mirror image of the object will be seen as follows:

## **Case 2: If the mirror is being placed on the right-hand side of the image.**

In this case, the mirror will be placed vertically. The top and bottom parts of the placed object will remain the same, however, the left and right sides of the image will be interchanged in the mirror image.



# TIPS AND TRICKS TO SOLVE MIRROR IMAGES QUESTIONS



## **Case 3: When the mirror is placed on the left-hand side of the image**

In this case, the mirror will be placed vertically. The top and bottom part of the object remains the same, while the left and right side of the object will be interchanged in the mirror image.





## MIRROR IMAGE



**Q1. If the mirror is placed vertically, then identify the correct mirror image of O B S T I N A T E?**

(a) ETANIT2BO

(b) BOSTINATE

(c) ETANITSBO

(d) SOBTNIATE



## MIRROR IMAGE



***Answer: A***

***Explanation:***

**Step 1: Check the first and last letters. Here O is at rightmost and E is at leftmost. According to the lateral inversion rule they will be interchanged in the mirror image.**

**Step 2: Eliminate the rest which does not follow the rule. This will save your time.**



## MIRROR IMAGE



**2. Choose the correct mirror image which closely resembles the mirror image of the given image.**



Options:



A



B



C



D



## MIRROR IMAGE



**Answer: B**

**Explanation: If the mirror has been put beside the given image, then the shaded part will become LHS in the mirror image because it is RHS in the original image.**



## MIRROR IMAGE



**3.If a clock shows the time 9:15 then what will be the time shown by the mirror image?**

**Answer:** Drawing the clock and then seeing the mirror image of each and everything will make the task cumbersome and tough, which would be time taking in the exam.

So such a question can be solved by the following trick:

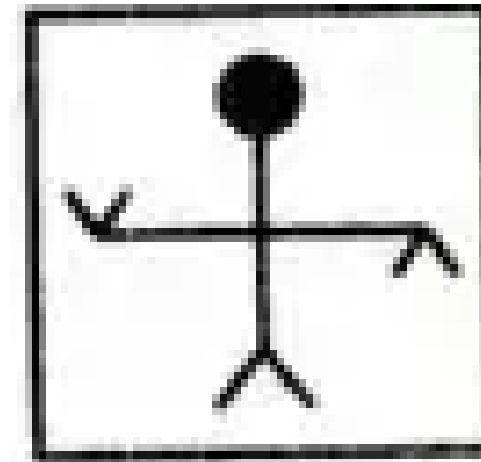
$$11 : 60 - 9 : 15 = 1 : 45$$



# WATER IMAGE



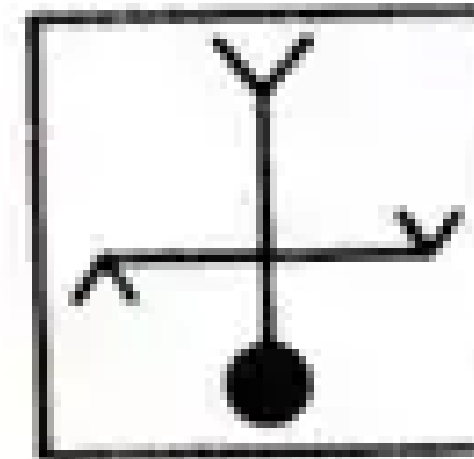
**Figure**



**Water**



**Water Image**



Reference : <https://grdp.co/cdn-cgi/image/width=500,height=500,quality=50,f=auto/https://gs-post-images.grdp.co/2017/12/pic-13-img1514373044929-66.jpg-rs-high-webp.jpg>

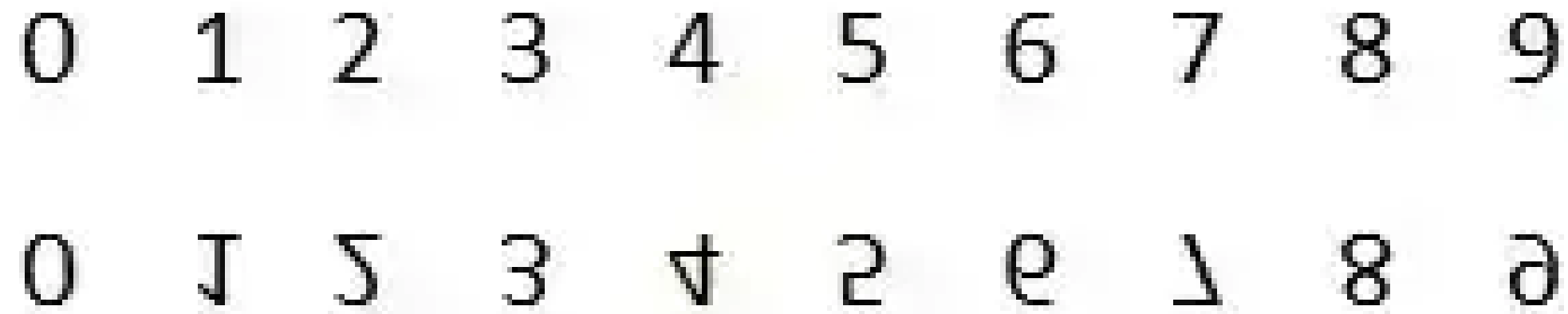




# WATER IMAGE



## Water image of numbers



Reference: <https://grdp.co/cdn-cgi/image/width=500,height=500,quality=50,f=auto/https://gs-post-images.grdp.co/2017/12/pic-14-img1514373087709-58.jpg-rs-high-webp.jpg>

