

Non Verbal Reasoning: Key Concepts, Solved Examples, & Prep Tips

2020/11/26

Non Verbal Reasoning is an important section under logical reasoning which tests [analytical thinking](#) along with various other skills. Questions based on non verbal reasoning don't require a deep understanding of English grammar and vocabulary. Some of the important topics under Non Verbal Reasoning are [analogy](#), classification, [series](#), Image and Figure Counting, [Cube and Dice](#) and so on.

In this article, we are going to cover the key concepts of Non Verbal Reasoning along with the various types of it, solved examples, practice questions and the tips and tricks to solve the questions related to this section. Read the article thoroughly to clear all the doubts regarding the same.

What is Non Verbal Reasoning?

As the name suggests, Non Verbal Reasoning is a logical reasoning which tests the non verbal knowledge of a candidate. The questions aim to judge the candidate's information processing capabilities, creative thinking ability, and evaluation skills. Some of the important chapters of non verbal reasoning are analogy, [classification](#), series, [Image and Figure Counting](#), Cube and Dice and so on. Let us now understand various types of questions from below.

Types of Non Verbal Reasoning

Let us see the various types of questions that may come in this section one by one from below.

1. Analogy

In this type, two things are compared and conclusions are drawn based on their similarities. A question consists of words related to each other based on some logic will be given, and candidates will need to find a word or pair of words analogous to those given in the question.

2. Classification

In this type, items of a given group on the basis of a certain common quality they possess and then spot the stranger or odd one out. In this case, candidates will be given a group of certain items, out of which all except one are similar to one another in some manner

3. Series

Number Series refers to a sequence of numbers following some pattern. Candidates need to find the missing or wrong number in the provided series. There may be some questions where one of the terms in the given series will be incorrect, and candidates need to find out that term of the series by identifying the pattern involved in the formation of the series.

4. Figure Counting & Image Formation

In the Image and Figure Counting reasoning section, figure counting refers to the process of formation of a defined geometrical figure with the use of pieces of different designs. On other hand, images are of various types such as Mirror Image, Water Image etc. Mirror Image is the image or the reflection of an object into a mirror when that object is placed near it.

5. Cube & Dice

Cube is a three dimensional figure which can only be made out of square. Square when given a height equal to one of the sides, becomes a cube. Die/Dice is a three dimensional figure with each of its six sides/faces showing different numbers/letters/colours etc. It has 8 corners and 12 edges. In a dice, length, breadth and height all are equal to each other. Several types of problems based on Cube and Dice reasoning sections are asked in various government competitive exams.

Get more insights on [Inequality](#)

How to Solve Question Based on Non Verbal Reasoning – Know all Tips and Tricks

Candidates can find various tips and tricks from below for solving the questions related to this section.

Tip # 1: Non Verbal reasoning section is one of the tricky sections, so candidates need to read the question carefully before choosing the answer to the given question.

Tip # 2: For solving the questions related to the non verbal reasoning, candidates need to possess creative thinking ability, and evaluation skills, as most of the topics related to non verbal reasoning will require that.

Non Verbal Reasoning Sample Questions

Question 1: TOK : SNJ :: LAP : ?

Solution: The logic used here is given below.

| Alphabet | Positional Value | Positional Value | Alphabet |
|----------|------------------|------------------|----------|
| A | 1 | 26 | Z |
| B | 2 | 25 | Y |

| | | | |
|---|----|----|---|
| C | 3 | 24 | X |
| D | 4 | 23 | W |
| E | 5 | 22 | V |
| F | 6 | 21 | U |
| G | 7 | 20 | T |
| H | 8 | 19 | S |
| I | 9 | 18 | R |
| J | 10 | 17 | Q |
| K | 11 | 16 | P |
| L | 12 | 15 | O |
| M | 13 | 14 | N |

Here The pattern followed is,

| | | |
|----|----|----|
| T | O | K |
| -1 | -1 | -1 |
| S | N | J |

Similarly,

| | | |
|----|----|----|
| L | A | P |
| -1 | -1 | -1 |
| K | Z | O |

Hence, “KZO” is the correct answer.

Question 2: Afghanistan : Kabul :: USA : ?

Solution: Kabul is the capital of Afghanistan.

Similarly, Washington is the capital of the USA.

Hence, Washington will replace the question mark.

Question 3: Choose the odd pair.

1. Volume : Liter
2. Time : Second
3. Length : Meter
4. Pressure : Barometer

Solution: In all options, the second pair is the unit to measure the first one but in option 4, the barometer is the instrument to measure pressure.

Hence, the correct answer is Pressure : Barometer.

Question 4: Choose the pair of words which are different from others in the group.

1. Length : Extend
2. Duration : Period
3. Time : Span
4. Expanse : Stretch

Solution: Here, in all options, the first word is the synonyms of the second word except the last one.

The last one is the antonyms of the first one.

Hence., the correct answer is Expanse : Stretch.

Question 5: 12, 13, 25, 38, ?, 101, 164

Solution: The solution of the series is as follows.

12

13

$$25 = 12 + 13$$

$$38 = 13 + 25$$

$$63 = 25 + 38$$

$$101 = 38 + 63$$

$$164 = 101 + 63$$

Hence, the correct answer is 63.

Question 6: 2, 29, 4, 25, 6, ?, 8, 17

Solution: The solution of the series is as follows.

$2 + 2 = 4$

$4 + 2 = 6$

$6 + 2 = 8$

Similarly,

$29 - 4 = 25$

$25 - 4 = 21$

$21 - 4 = 17$

Hence, the correct answer is 21.

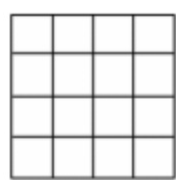
Question 7: Find the mirror image of the given figure?



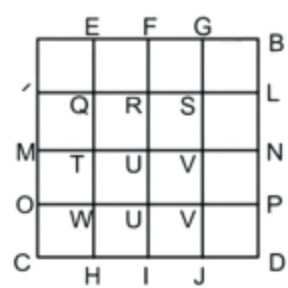
Solution: The mirror image of this image is:-



Question 8: How many squares are there in the given figure?



Solution:



AEKQ, EFQR, FGRS, GBSL, KQMT, QRTU, RSUV, SLVN, MTOW, TUWX, UVXY, VNYP, OWCH, WXHI, XYIJ, YPJD, AFMU, MUCI, KROX, FBUN, UNID, RLXP, EGTU, TVHJ, QSWY, AGOY, KSCJ, EBWP, QLHD, ABCD.

Hence, there are 30 squares in the given figure.

Question 9: What number will be opposite to 2?



Solution: It is a standard dice as no of any adjacent sides are 7. As, standard dice, opposite no. of 2 will be

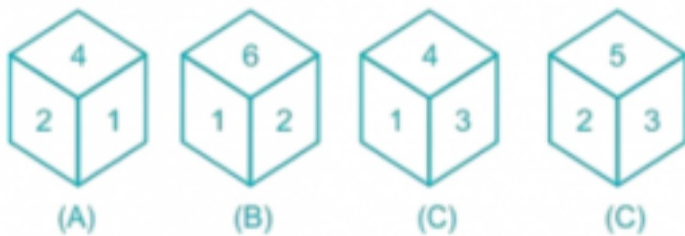
$$6 \leftrightarrow 1$$

$$5 \leftrightarrow 2$$

$$4 \leftrightarrow 3$$

Ans is 5, (sum of opposite side is 7)

Question 10: What is the example of a standard dice?



Solution: As per definition of standard dice, any of the two opposite faces of dice must be 7.

So, only in dice A the sum of two adjacent faces is 7.

Hence, the correct answer is A.

Get more details on [Decision Making Reasoning](#)

Exams where Non Verbal Reasoning is Part of Syllabus

Questions based on this section come up often in various prestigious government exams some of them are as follows.

- Bank (PO & Clerk) Exams
- SSC (CGL, 10+2, Steno, FCI, CPO, Multitasking)

- LIC (AAO & ADO)
- RRB
- UPSC
- State PSC Exams

Check out more details on other Reasoning Topics:

| | |
|--|--|
| Statement & Assumption | Statement and Course of Action |
| Statement & Conclusion | Cubes and Dice |

We hope you found this article was informative and helpful, and please do not hesitate to contact us for any doubts or queries regarding the same. You can also download the [Testbook App](#), which is absolutely free and start preparing for any government competitive examination by taking the mock tests before the examination to boost your preparation.

Non Verbal Reasoning FAQs

Q.1 What is Non Verbal Reasoning?

Ans.1

Non Verbal Reasoning is a logical reasoning which tests the non verbal knowledge of a candidate. This questions aim to judge the candidate's information processing capabilities, creative thinking ability, and evaluation skills.

Q.2 How many types of non verbal reasoning questions are there?

Ans.2

Questions can be categorized into topics like analogy, classification, series, Image and Figure Counting, Cube and Dice and so on.

Q.3 Where will I get the tips and tricks for the non verbal reasoning section?

Ans.3

Some of the tips and tricks related to this section are given above in the article.

Q.4 Where I will find some of the sample questions related to non verbal reasoning?

Ans.4

Various example questions along with their solutions are given above in the article. Kindly go through the article for the same.

Q.5 In which exam questions from non verbal reasoning come up?

Ans.5

Non Verbal Reasoning is one of the most important sections for various government and non government recruitment examinations. Several prestigious exams frequently ask questions related to this sections. More details can be found in the article above.



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