

REASONING WORKBOOK

5

For the preparation of National
& International Olympiads



- Chapter-wise practice exercises
- Previous year paper

Reasoning Olympiad

Exams Preparation Book

CRO | UCTO | iRAO

Grade 5



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CREST Reasoning Olympiad Workbook for Grade 5

Fourth Edition

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Disclaimer: The information in the Workbook is to give you the path to success but it does not guarantee 100% success as the strategy is completely dependent on its execution. And it is based on previous year papers of CRO exam.

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Preface

We are pleased to launch a thoroughly revised edition of this workbook. We welcome feedback from students, teachers, educators and parents. For improvements in the next edition, please send your suggestions at info@crestolympiads.com. Our team will make an effort to work on those suggestions. The status of the improvements can be checked at <https://www.crestolympiads.com/corrections-class5-587>

CREST Olympiads is one of the largest Olympiad Exams with students from more than 60 countries. The objective of these exams is to build a competitive spirit while evaluating students on conceptual understanding of the concepts.

We strive to provide a superior learning experience, and this workbook is designed to complement the school studies and prepare the students for various competitive exams including the CREST Olympiads. This workbook provides a crisp summary of the topics followed by the practice questions. These questions encourage the students to think analytically, to be creative and to come up with solutions of their own. There is a previous year's paper given at the end of this workbook for the students to attempt after completing the syllabus. This paper should be attempted in 1 hour to get an assessment of the student's preparation for the final exam.

Publishers

Patterns form an important part of logical reasoning. While solving these questions, we generally focus on creating continuity between the given entities. The intelligence of the student is monitored in terms of how he/she relates one entity with another. It is based upon the repetition of any sequence or completing a missing part of the figure.

In such questions, we need to focus on the logic which is followed in the given elements. Depending upon this logic, the student is required to predict the next or the missing term in the question.

Let us have a look at some pattern-based questions:

Example 1: W, R, T, O, ?

- | | |
|------|------|
| a. S | b. Q |
| c. P | d. R |

Solution 1: b

Try to figure out the logic in the given pattern.

We will observe that the place value of the alphabets is decreasing by 5 and increasing by 2 alternatively.

$$W (23) - 5 = R (18)$$

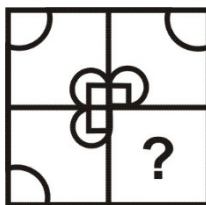
$$R (18) + 2 = T (20)$$

$$T (20) - 5 = O (15)$$

$$O (15) + 2 = \mathbf{Q (17)}$$

Hence, Q is the correct answer.

Example 2: Choose the alternative which closely resembles the missing pattern in the given figure.

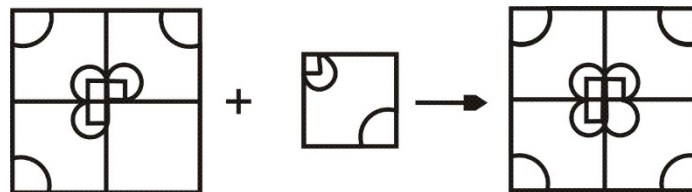




Solution 2: a

In the figure given above, we can just concentrate on completing the square in the middle. Since option (a) and (b) both satisfy this condition, we will now check the difference between the two. We observe that the position of the quarter circle is different. We need the quarter circle in the bottom right corner.

Only option (a) provides us with the above criteria.



Therefore, option (a) is the correct answer.

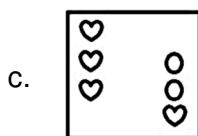
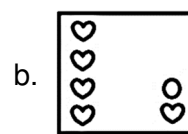
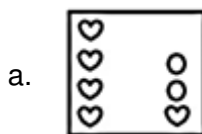
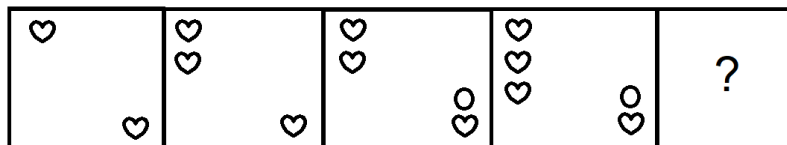
Practice Questions

1. Identify the next term of the given pattern:

36, 24, 46, 34, 56, ?

- a. 45
- b. 44
- c. 46
- d. 42

2. Identify the next term of the given pattern:



3. In the question, a series is given, with one term missing. Choose the correct option that will complete the series:

TUZW, MNSP, HINK, ? , DEJG

- a. FEKH
- b. KHFE
- c. EKfJ
- d. EFKH

4. Identify the missing term of the given pattern:

g, j, f, i, ?, h

- a. e
- b. k
- c. f
- d. l

5. Identify the missing term of the given pattern:

55, 69, 76, ?, 97, 111

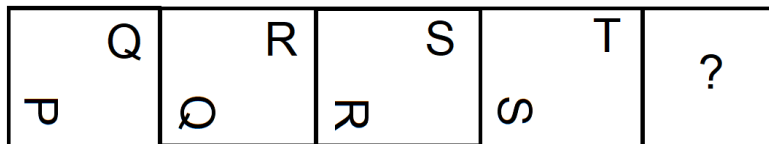
- a. 88
- b. 95
- c. 79
- d. 90


6. Select the term that will come next in the following series:

HD, JK, LR, ?

- a. MY
- b. MZ
- c. NY
- d. NZ

7. Select the figure which will come next in the following series:



- a. 
- b. 
- c. 
- d. 

8. Identify the missing term of the given pattern:

99, 78, 65, 59, ?, 78, 65, 59, 99, 78

- a. 65
- b. 59
- c. 78
- d. 99

9. In question a series is given, with one term missing. Choose the correct option that will complete the series:

MIN, QER, UAV, ?, CSD

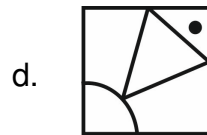
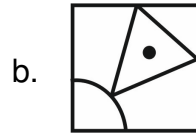
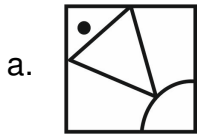
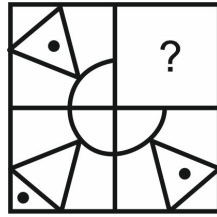
- a. UZW
- b. YWZ
- c. YZW
- d. ZYW

10. Identify the next term of the given pattern:

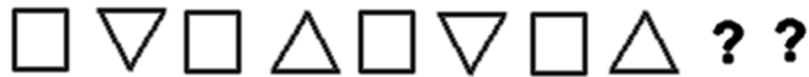
17, 34, 23, 46, 35, ?

- a. 70
- b. 65
- c. 45
- d. 50

11. Choose the alternative which closely resembles the missing pattern of the given figure:



12. Identify the next term of the given pattern:



13. Identify the next term of the given pattern:

86, 80, 40, 34, 17, ?

- a. 11
c. 14

- b. 12
d. 10

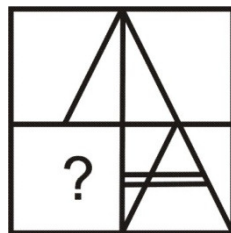
14. Select the term that will come next in the following series:

VSY, RQX, NOW, JMV, ?

- a. FUK
c. KUF

- b. KLM
d. FKU

15. Choose the alternative which closely resembles the missing pattern of the given figure:





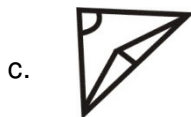
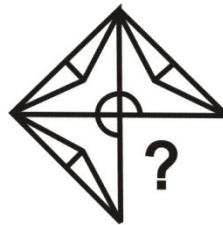
16. Identify the missing terms in the given pattern.
R, 16, P, 14, ?, 12, L, 10, J

- a. N
- b. M
- c. 10
- d. 11

17. Identify the missing terms in the given pattern:
S, P, ?, G, A

- a. I
- b. J
- c. M
- d. K

18. Choose the alternative which closely resembles the missing pattern of the given figure:



19. Identify the missing term of the given pattern:
W, T, R, O, M, ?, H

- a. J
- b. P
- c. N
- d. K

20. Identify the next term of the given pattern:
1, 4, 9, 16, 25, ?

- a. 32
- b. 36
- c. 40
- d. 49

CREST International Spell Bee (Summer & Winter)

For Grades 1-8



Exam Highlights

- Online proctored Spell Bee exam
- Focus on evaluating spellings, meanings and pronunciation.
- Exam Pattern: MCQ type questions + Audio Round (Students need to hear the question & write the spelling of the word asked)
- Get to attempt 2 Free Practice Tests



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