

REASONING WORKBOOK

3

For the preparation of National
& International Olympiads



- Chapter-wise practice exercises
- Previous year paper

CREST Reasoning Olympiad (CRO)

Reasoning Olympiad

Exams Preparation Book

CRO | UCTO | iRAO

Grade 3



#CRESTInnovator

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CREST Reasoning Olympiad Workbook for Grade 3

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-class3-597>

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

Chapter 1

Patterns

Patterns form an important part of logical reasoning. While solving these questions, the focus is generally on creating continuity between the given entities. It is based upon the repetition of any sequence or completing a missing part of the figure.

In such questions, student needs 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: P, N, Q, O, R, ?

- a. P
- b. S
- c. T
- d. Q

Solution 1: a

We first need to search the logic in the given question.

Try to figure out the logic in the given pattern.

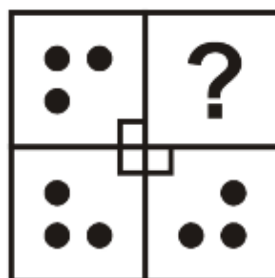
We will observe that the place value of the alphabet is first decreasing by 2 and then increasing by 3 alternatively.

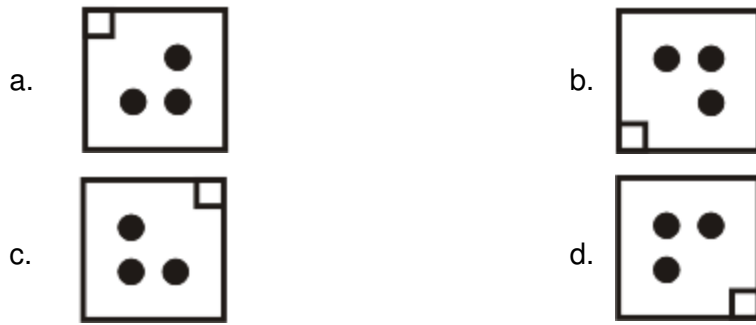
$P (16) - 2 = N (14)$
 $N (14) + 3 = Q (17)$
 $Q (17) - 2 = O (15)$
 $O (15) + 3 = R (18)$
 $R (18) - 2 = \mathbf{P (16)}$

Therefore, apply the same logic and try to predict the next term after R.

Hence, P is the correct answer.

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





Solution 2: b

In the figure given above, we can just concentrate on completing the square in the middle.

This will save a lot of time and will help us to reach the correct answer quickly.

For completing the square, we need the quarter part of the square located exactly in the left bottom.

Only option b provides us with this figure.

Therefore, option b is the correct answer.

Practice Questions

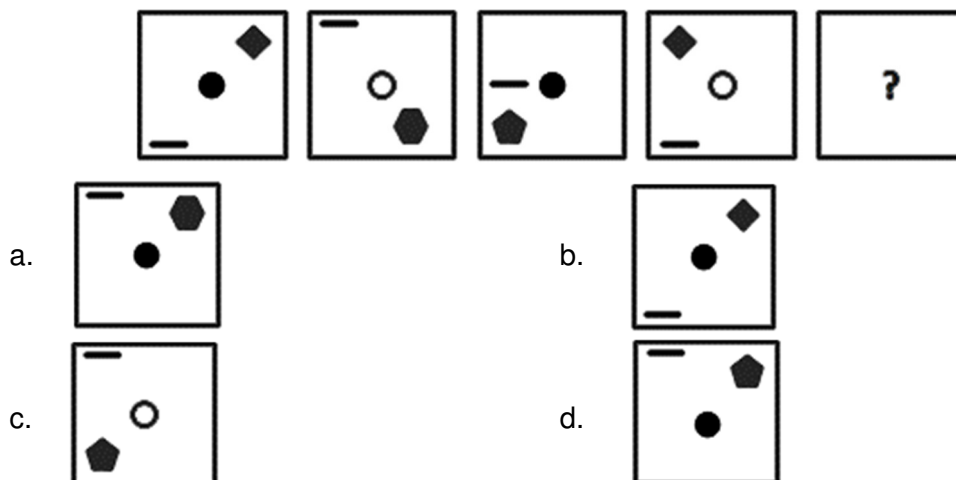
1. Identify the next term of the given pattern:
14, 15, 17, 20, ?

- [illegible]

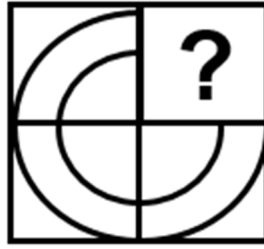
2. Identify the next term of the given pattern:
S, T, P, Q, M, ?

- a. G b. O
c. K d. N

- 3.** Identify the next term of the given pattern:



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



5. Identify the missing term of the given pattern:
34, 37, 40, ?, 46, 49

- a. 44
c. 43

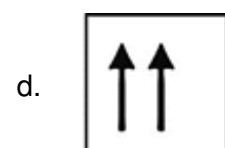
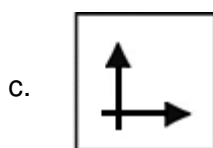
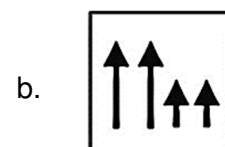
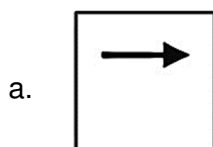
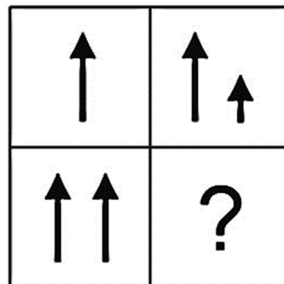
- b. 41
d. 47

6. Identify the missing term of the given pattern:
L, N, R, L, ?, R, L

- a. T
c. N

- b. L
d. R

7. Identify the next term of the given pattern:



8. Identify the missing term of the given pattern:

A, C, G, I, ?, O

- | | |
|------|------|
| a. M | b. N |
| c. P | d. K |

9. Identify the next term of the given pattern:

S, T, T, P, S, T, T, P, S, ?

- | | |
|------|------|
| a. T | b. P |
| c. S | d. O |

10. Identify the next term of the given pattern:

19, 16, 15, 12, 19, 16, 15, 12, 19, 16, ?

- | | |
|-------|-------|
| a. 12 | b. 15 |
| c. 16 | d. 19 |

11. Identify the missing term of the given series:

WE, UE, SE, ?, OE

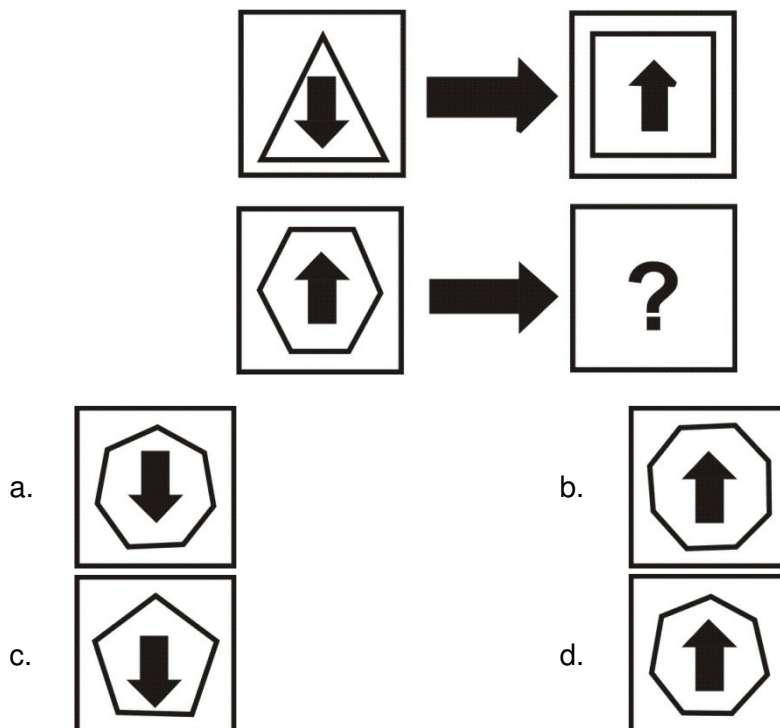
- | | |
|-------|-------|
| a. QE | b. RE |
| c. TE | d. ME |

12. Identify the next term of the given pattern:

A, BB, CCC, ?

- | | |
|----------|---------|
| a. EE | b. DDD |
| c. EEEEE | d. DDDD |

13. Identify the missing term of the given pattern:

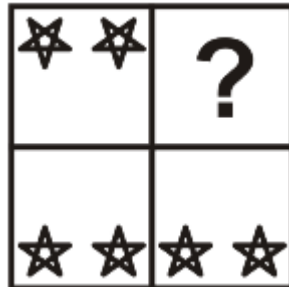


- 14.** Identify the next term of the given pattern:

90, 81, 72, 63, ?

- a. 45
c. 44
- b. 54
d. 55

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



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

- 16.** Identify the missing terms in the given pattern:

GF_SGFDS_FDS

- [illegible]

- 17.** Identify the missing term of the given pattern:

254_254325_3

- a. 23 b. 35
c. 43 d. 34

- 18.** Identify the next term of the given pattern:

55555, 4444, 333, 22, ?

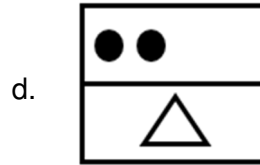
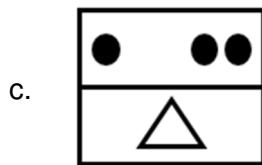
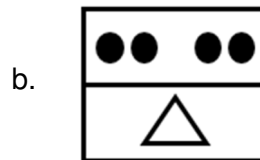
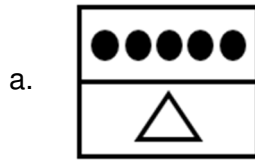
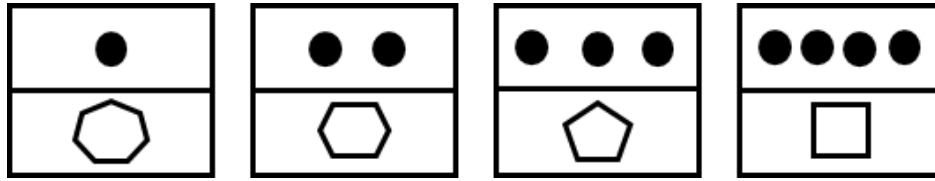
- a. 0
b. 11
c. 121
d. 1

- 19.** Identify the missing part of the pattern:

Triangle, Square, Pentagon, ?, Heptagon, Octagon

- a. 0
b. 11
c. 121
d. 1

20. Identify the next term of the given pattern:



CREST International Spell Bee (Summer & Winter)

For Grades 1-8



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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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