

REASONING WORKBOOK

6

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 6



#CRESTInnovator

www.crestolympiads.com

CREST Reasoning Olympiad Workbook for Grade 6

Fourth Edition

Copyright © 2024 Loyalty Square Analytic Solutions Private Limited (hence, referred to as CREST Olympiads). Printed with the permission of CREST Olympiads. No part of this publication may be reproduced, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the copyright holder. Ownership of a Workbook does not give the possessor the Workbook copyright.

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.

Published & Distributed by: Loyalty Square Analytic Solutions Private Limited
Corporate Office: B2 -234, Spaze IT Park, Sector-49, Gurgaon, Haryana-122018, India

Website: <https://www.crestolympiads.com>

Email: info@crestolympiads.com

Contact Number: +91-9818-294-134

ISBN Number: 978-81-957950-8-6

Social Media Accounts



Facebook: <https://www.facebook.com/crestolympiads>

Instagram: <https://www.instagram.com/crestolympiads>

LinkedIn: <https://www.linkedin.com/company/crestolympiads>

Youtube: <https://www.youtube.com/c/CRESTOlympiads>

Twitter: <https://twitter.com/crestolympiads>

Visit www.crestolympiads.com/olympiad-books for buying books online.



Also Available On

amazon

Flipkart



Contents

1. Series Completion and Inserting the Missing Character	5
2. Analogy and Classification	10
3. Blood Relations	15
4. Coding and Decoding.....	21
5. Direction Sense Test.....	27
6. Logical Venn Diagram	33
7. Alphabet, Number, Alphanumeric Test and Logical Sequence of Words	40
8. Ranking and Time Sequence Test	46
9. Mathematical Operations	51
10. Construction of Squares, Grouping of Identical Figures and Figure Matrix	56
11. Paper Folding and Cutting, Cubes-Dice and Analytical Reasoning	65
12. Embedded Figures and Dot Situations	73
13. Mirror and Water Images.....	82
14. Previous Year Paper (2023-24)	90
15. Answer Key.....	97

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-class6-726>

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

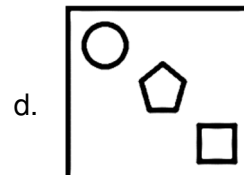
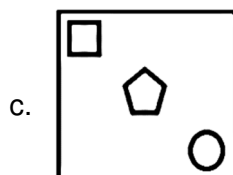
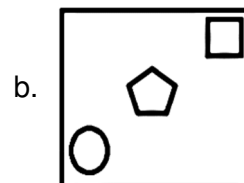
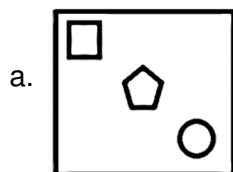
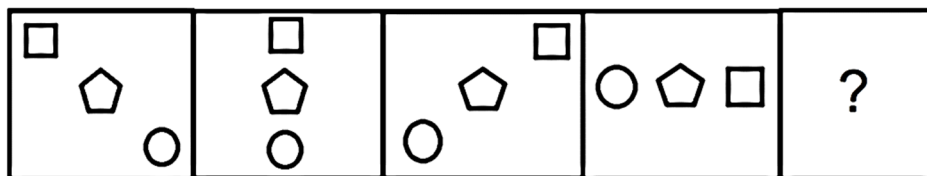
Chapter 1

Series Completion and Inserting the Missing Character

In this category of logical reasoning, we deal with questions that judge our logic decoding capabilities. The better we understand the relation or logic between the given entities, the easier and quicker it becomes for us to solve such questions.

We need to predict the next term in the given series or the missing term from the series. This series can be of numbers, alphabets or images.

Example 1: Select the figure which will come next in the following series:



Solution 1: d

The position of the circle and square in the figure is rotating 45° clockwise in each step. Hence, option (d) is the next image in the series.

Example 2: What will come at the place of the question mark in the following series?

1, 1, 2, 8, 3, ?, 4, 64

- a. 9
c. 18

- b. 27
d. 17

Solution 2: b

$$1^3 = 1$$

$$2^3 = 8$$

$$3^3 = 27$$

Series Completion and Inserting the Missing Character

$$4^3 = 64$$

Hence, 27 is the correct answer.

Example 3: What should come next in the following letter series based on English alphabet?
C, I, O, ?

- | | |
|------|------|
| a. S | b. T |
| c. W | d. U |

Solution 3: d

The pattern here is:

$$C (3) + 6 = I (9)$$

$$I (9) + 6 = O (15)$$

$$O (15) + 6 = U (21)$$

Example 4: Select the correct alternative from the given options that will complete the series:
V, T, Q, M, ?

- | | |
|------|------|
| a. H | b. I |
| c. J | d. K |

Solution 4: a

The pattern here is:

$$V - 2 = T$$

$$T - 3 = Q$$

$$Q - 4 = M$$

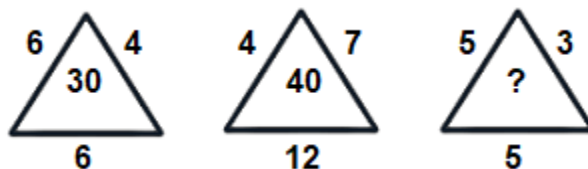
$$M - 5 = H$$

Practice Questions

1. Select the letter that can replace the question mark '?' in the following series:
D, H, G, K, J, N, M, ?

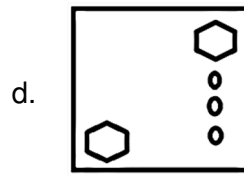
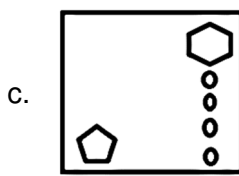
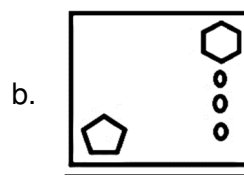
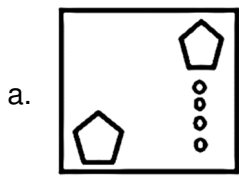
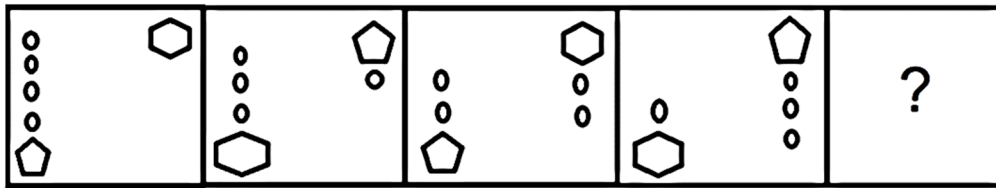
- | | |
|------|------|
| a. Q | b. P |
| c. R | d. S |

2. Select the number which can be placed at the sign of the question mark (?) from the given alternatives:



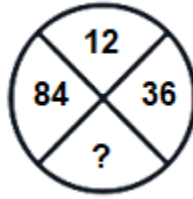
- | | |
|-------|-------|
| a. 15 | b. 20 |
| c. 25 | d. 30 |

- 3.** Select the number which can be placed at the sign of the question mark (?) :
6, 9, ? , 21, 30, 41
- a. 14 b. 20
c. 19 d. 17
- 4.** Select the term which will come next in the following series:
WC, UE, SG, QI, ?
- a. MO b. MN
c. ON d. OK
- 5.** Select the figure which will come next in the following series.



6. Select the term which will come next in the following series.
8, 13, 23, 38, 58, ?
- a. 83
c. 77
- b. 80
d. 78
7. Select the option that can replace the question mark '?' in the following series;
LCDM, QHIR, VMNW, ?
- a. ZRBS
c. ARSB
- b. ARBS
d. ZABS
8. Select the term which will replace the question mark in the following series.
25, 85, 155, ?, 325, 425
- a. 255
c. 295
- b. 235
d. 305

9. Select the number which can be placed at the sign of the question mark (?) from the given alternatives:



- a. 54
b. 56
c. 60
d. 62
10. Select the option that can replace the question mark '?' in the following series.
VWQZ, TUOX, RSMV, ?

- a. PRKT
b. RPKT
c. RQTK
d. PQKT

11. Identify the missing term of the given number series:
4, 10, 22, ?, 94

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

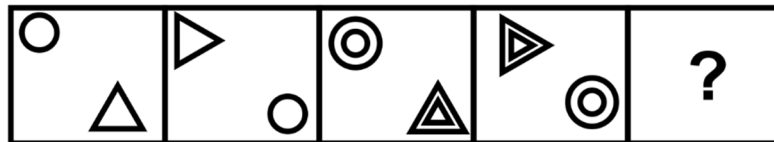
12. Select the letter that can replace the question mark '?' in the following series:
D, H, ?, K, J, N, M, Q

- a. G
b. H
c. F
d. I

13. Select the term which will replace the question mark in the following series:
V, 23, R, 19, N, 15, J, ?

- a. 10
b. 12
c. 11
d. 9

14. Select the figure which will come next in the following series.



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

15. Select the term which will replace the question mark in the following series:
48, 35, ?, 15, 8, 3

a. 20
c. 22

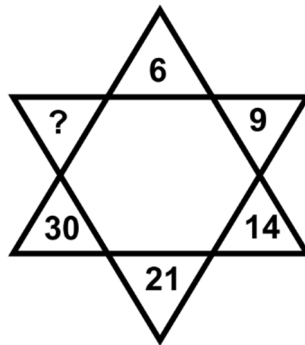
b. 21
d. 24

16. Select the option that can replace the question mark '?' in the following series:
TY, ? , LO, HJ, DE

a. PT
c. RS

b. PS
d. RT

17. Select the number which can be placed at the sign of the question mark (?) from the given alternatives:



a. 44

c. 42

b. 46
d. 41

18. Select the letter that can replace the question mark '?' in the following series:
F, U, I, R, L, O, ?

a. P
c. O

b. L
d. M

19. Select the term which will come next in the following series:
6, 24, 60, 120, ?

a. 216
c. 210

b. 211
d. 212

20. Select the term which will come next in the following series:
Q, 21, S, 23, U, 25, ?

a. 23
c. X

b. W
d. 24