ALLEN Intelli Brain®

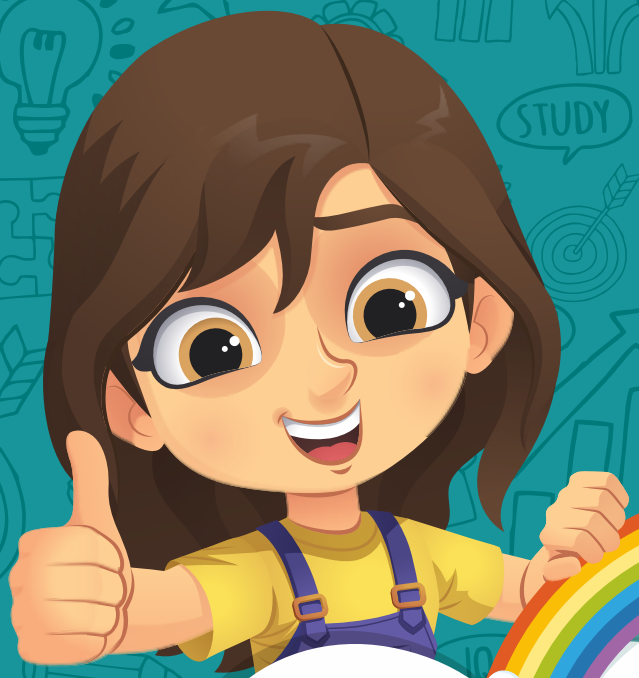
Experiential Experimental Edutaining

LOGICAL REASONING

SAMPLE BOOK

6 GRADE

LOGICAL REASONING



I'm the

Intelli Kid

and

I'm becoming the

Best Version

of myself with

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GRADE-6

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I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)

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Coding Decoding				
Direction Sense Test				
Mathematical Operations				
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Alphabet Test & Alpha-Numeric Sequence Puzzle				
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Inserting the Missing Character				
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LOGICAL REASONING

SAMPLE THEORY

CHAPTER 4

VERBAL SERIES

A series is a combination of numbers, letters or both following a certain defined rule.

We either look for the next term in a series or find the missing term by identifying the rule followed in the series.

Some of the rules followed in the series are based on the following cases.

- **Addition/Subtraction of Numbers:** It can be consecutive odd/even numbers or prime numbers.
- **Multiplication or Division of Numbers:** Multiplication or division can be applied using one or more than one digit.
- **Multiple Operations:** In this, a series follows more than one operation.
- **Based on Combination of Two or More Series:** A series consists of two or more different series.

TYPES OF VERBAL SERIES

Type 1: Number Series

In this type of series, we identify the rule followed in the series using mathematical operations.

Example 1: Find the missing number in the series given below.

2 5 8 11 14 ?

(1) 16 (2) 17 (3) 19 (4) 20

Solution: (2) 17

2 5 8 11 14 17

+3 +3 +3 +3 +3

Therefore, next number in the above series will be 17.

Example 2: What count of stars will come in pattern 6 in the series given below ?

Pattern 1 Pattern 2 Pattern 3 Pattern 4

(1) 13 (2) 12 (3) 15 (4) 17

Solution: (4) 17

As we can see, the count of numbers in the series are of prime numbers in increasing order.

Therefore, the number of stars in pattern 6 in the above series will be 17.

Type 2: Alphabet Series

A combination of alphabets is arranged in this type of series, forming a series by either moving forward or backward movement or based on their position-number.

Example: Identify the next pair of letters in the following series.

BF DI FL HO ?

(1) IJ (2) JO (3) JR (4) KQ

Solution: (3) JR

Therefore, the next pair of letters in the above series is JR.

Type 3: Alpha-Numeric Series

In this type of series, a combination of numbers and letters are given and by identifying the rule followed, we find the missing or the next term.

Example: Which of the following combination of letter and number will replace the question mark in the series given below ?

Z22 X18 ? T10 R6

(1) W14 (2) V13 (3) V14 (4) U14

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LOGICAL REASONING

SAMPLE EXERCISE

EXERCISE

GRADE-6

Verbal Series

Directions: Solve the following multiple choice questions by choosing the most appropriate option.

1. Find the next term in the series given below.

2 4 8 10 14 ?

(1) 18 (2) 16 (3) 20 (4) 17

2. Identify the missing term in the following series.

9 10 12 ? 19 24

(1) 16 (2) 14 (3) 18 (4) 15

3. Which of the following numbers will come next in the series given below ?

2 3 3 6 5 9 8 12 ?

(1) 15 (2) 11 (3) 12 (4) 13

4. Find the missing number in the series given below.

12 23 45 ? 177

(1) 90 (2) 79 (3) 89 (4) 60

Directions (Q.5 to Q.9): Observe the following numbers series and find the missing or next number.

5. 13 21 31 43 57 ?

(1) 73 (2) 70 (3) 65 (4) 77

6. 5 25 125 625 ?

(1) 3125 (2) 1125 (3) 2145 (4) 3025

7. 100 81 ? 49 36

(1) 56 (2) 70 (3) 64 (4) 58

8. 11 16 26 46 86 ?

(1) 150 (2) 166 (3) 96 (4) 123

9. 9 7 18 21 36 63 72 189 ?

(1) 136 (2) 243 (3) 158 (4) 144

10. Identify the wrong term in the series given below.

12 24 36 48 59 72

(1) 36 (2) 48 (3) 24 (4) 59

11. Observe the following series and find the next term.

26 16 10 8 6 ?

(1) 4 (2) 6 (3) 2 (4) 3

12. Complete the following series by identifying the rule followed in the series given below.

D G J M P S ?

(1) V (2) U (3) W (4) X

13. Find the missing term in the series given below.

B X D U F ? H O J

(1) R (2) Q (3) P (4) O

14. What will come next in the series given below ?

EHG IJHK MNKO QRSL ?

(1) WZYU (2) TZZU (3) [illegible] (4) SZYU

15. Find the next term in the series given below.

P R L K H 4 D Z ?

(1) B (2) F (3) Z (4) A

Directions (Q. 16 to Q. 20): Identify the pattern rule in the following series and tick on the correct next or missing term.

16. B C E G K M ?

(1) O (2) S (3) Q (4) X

17. AP JR LT NV ?

(1) TX (2) RY (3) QW (4) PX

18. CAB DBC FDE HGH ?

(1) JIK (2) LKM (3) MKL (4) MNO

19. LJZY [illegible] EFVU CDTS ?

(1) BCDP (2) ABRQ (3) BATS (4) DCUV