

# *Symbol and Notation*

———— *Reasoning with Mohit Kawatra*

## Type-1

1.  $256 * 4 * 9 * 3 * 14 = 51$

SSC CGL 14/07/2023

- (a)  $\times, +, -, \div$   
 (b)  $\div, \times, -, +$   
 (c)  $\times, \div, +, -$   
 (d)  $\div, -, \times, +$

2.  $150 * 3 * 10 * 2 * 7 * 46$

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- (a)  $\div, +, -, \times, =$   
 (b)  $-, \times, +, \div, =$   
 (c)  $+, -, \div, \times, =$   
 (d)  $\times, +, \div, -, =$

3.  $86 * 54 * 34 * 68 * 2 * 33$

SSC CGL 14/07/2023

- (a)  $-, +, \div, \times, =$   
 (b)  $\div, -, +, \times, =$   
 (c)  $\times, \div, \times, -, =$   
 (d)  $+, \div, \times, -, =$

4.  $76 * 34 * 23 * 12 * 6 * 21$

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- (a)  $+, -, +, \div, =$   
 (b)  $-, -, +, +, =$   
 (c)  $\times, -, +, \div, =$   
 (d)  $-, -, +, \div, =$

5.  $5 * 23 * 24 * 4 * 10 * 111$

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- (a)  $\div, +, -, \times, =$   
 (b)  $-, \times, +, \div, =$   
 (c)  $\times, +, \div, -, =$   
 (d)  $+, -, \div, \times, =$

6.  $32 * 42 * 7 * 7 * 17 * = 202$

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- (a)  $\times, \div, -, +$   
 (b)  $\times, -, +, \div$   
 (c)  $+, \div, \times, -$   
 (d)  $+, \times, \div, -$

7.  $56 * 8 * 4 * 7 * 50 * 15$

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- (a)  $+, =, \div, \times, +$   
 (b)  $\div, \times, =, +, +$   
 (c)  $\div, \times, -, =, \times$   
 (d)  $\div, \times, +, =, -$

8.  $28 * 4 * 3 * 9 * 42 * 12$

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- (a)  $\div, \times, -, =, \times$   
 (b)  $\div, \times, =, +, +$   
 (c)  $\div, \times, +, =, -$   
 (d)  $+, =, \div, \times, +$

9.  $55 * 63 * 9 * 8 * 3 = 38$

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- (a)  $\div, \times, -, +$   
 (b)  $\times, \div, +, -$   
 (c)  $+, -, \times, \div$   
 (d)  $+, \div, -, \times$

10.  $45 * 9 * 3 * 25 * 55 * 15$

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- (a)  $\div, \times, -, =, \times$   
 (b)  $\div, \times, =, +, +$   
 (c)  $+, =, \div, \times, +$   
 (d)  $\div, \times, +, =, -$

11.  $36 * 12 * 6 * 12 * 3 = 63$

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- (a)  $\times, \div, -, +$   
 (b)  $\div, -, +, \times$   
 (c)  $\div, +, -, \times$   
 (d)  $+, \div, \times, -$

12.  $11 * 13 * 238 * 17 * 34 = 123$

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- (a)  $+, \times, -, \div$   
 (b)  $\times, +, \div, -$   
 (c)  $+, \div, \times, -$   
 (d)  $\div, -, +, \times$

13.  $16 * 31 * 18 * 2 * 11 = 494$

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- (a)  $-, \times, +, \div, =$   
 (b)  $\div, +, -, \times, =$   
 (c)  $+, -, \div, \times, =$   
 (d)  $\times, +, \div, -, =$

14.  $74 * 34 * 78 * 23 * 23 * 30$

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- (a)  $\div, -, +, \times, =$   
 (b)  $+, \div, \times, -, =$   
 (c)  $+, -, +, -, =$   
 (d)  $-, \div, +, \times, =$

15.  $321 * 3 * 236 * 5 * 248 * 4 * 20 = 384$

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- (a)  $+, -, \times, +, \div, \times$   
 (b)  $-, +, \times, -, \div, +$   
 (c)  $\div, +, -, \times, +, -$   
 (d)  $\times, +, -, \div, +, -$

16.  $25 * 82 * 12 * 6 * 8 * 91$

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- (a)  $-, \times, +, \div, =$   
 (b)  $\div, +, -, \times, =$   
 (c)  $+, -, \div, \times, =$   
 (d)  $\times, +, \div, -, =$

17.  $42 * 7 * 5 * 5 * 40 * 5$

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- (a)  $\div, \times, +, =, -$   
 (b)  $\div, \times, =, +, +$   
 (c)  $\div, \times, -, =, \times$   
 (d)  $+, =, \div, \times, +$

18.  $12 * 4 * 15 * 3 * 16 * 24$

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(a)  $+, -, \div, \times, =$

(b)  $-, +, \div, \times, =$

(c)  $\div, -, +, \times, =$

(d)  $\div, +, \div, +, =$

19.  $62 * 11 * 42 * 6 * 18 * 21 * 7$

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(a)  $+, -, =, \times, -, \div$

(b)  $=, \times, \div, -, +, \div$

(c)  $-, +, =, \times, -, +$

(d)  $+, -, \div, =, \times, +$

20.  $72 * 9 * 3 * 6 * 6 * 6 * 6$

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(a)  $\div, \times, +, =, -, +$

(b)  $\div, \times, +, =, \times, -$

(c)  $\times, \div, =, -, +, \times$

(d)  $+, \times, =, -, \div, +$

## Type-2

1.  $588 \div 28 \times 32 + 72 - 160 = 760$

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(a)  $- \text{ and } +$

(b)  $\div \text{ and } -$

(c)  $+ \text{ and } \times$

(d)  $\div \text{ and } +$

2.  $294 + 14 \times 4 \div 16 - 67 = 33$

SSC CGL 14/07/2023

(a)  $+ \text{ and } \div$

(b)  $\times \text{ and } \div$

(c)  $+ \text{ and } -$

(d)  $- \text{ and } \div$

3.  $60 \times 4 + 9 \div 3 - 8 = 34$

SSC CGL 14/07/2023

(a)  $+ \text{ and } -$

(b)  $\div \text{ and } +$

(c)  $+ \text{ and } \times$

(d)  $\div \text{ and } \times$

4.  $117 \div 13 + 16 \times 540 - 40 = 644$

SSC CGL 14/07/2023

(a)  $\div \text{ and } +$

(b)  $+ \text{ and } \times$

(c)  $- \text{ and } +$

(d)  $\div \text{ and } -$

5.  $912 - 456 \times 28 + 390 \div 2 = 444$

SSC CGL 17/07/2023

(a)  $\div \text{ and } -$

(b)  $\div \text{ and } +$

(c)  $- \text{ and } +$

(d)  $+ \text{ and } \times$

6.  $625 \div 25 + 7 \times 318 - 112 = 381$

SSC CGL 17/07/2023

(a)  $- \text{ and } +$

(b)  $\div \text{ and } +$

(c)  $\div \text{ and } -$

(d)  $+ \text{ and } \times$

7.  $100 + 100 \times 50 - 2 \div 3 = 51$

SSC CGL 17/07/2023

(a)  $+ \text{ and } \div$

(b)  $+ \text{ and } -$

(c)  $- \text{ and } \times$

(d)  $\div \text{ and } \times$

8.  $10 - 4 + 13 \div 15 \times 3 = 71$

SSC CGL 18/07/2023

(a)  $+ \text{ and } \times$

(b)  $- \text{ and } \div$

(c)  $\div \text{ and } \times$

(d)  $- \text{ and } \times$

9.  $1664 \div 4 \times 2 + 712 - 316 = 436$

SSC CGL 18/07/2023

(a)  $\div \text{ and } +$

(b)  $\div \text{ and } -$

(c)  $- \text{ and } +$

(d)  $+ \text{ and } \times$

10.  $756 \div 252 + 89 \times 180 - 63 = 384$

SSC CGL 19/07/2023

(a)  $+ \text{ and } \times$

(b)  $\div \text{ and } -$

(c)  $- \text{ and } +$

(d)  $\div \text{ and } +$

11.  $2 \times 236 - 2 + 36 \div 72 = 200$

SSC CGL 19/07/2023

(a)  $\div \text{ and } -$

(b)  $- \text{ and } +$

(c)  $\times \text{ and } +$

(d)  $+ \text{ and } \div$

12.  $173 \div 169 + 13 \times 5 - 13 = 225$

SSC CGL 20/07/2023

(a)  $+ \text{ and } -$

(b)  $\div \text{ and } -$

(c)  $\div \text{ and } +$

(d)  $- \text{ and } \times$

13.  $12 \div 5 - 8 \times 2 + 14 = 70$

SSC CGL 20/07/2023

(a)  $- \text{ and } +$

(b)  $+ \text{ and } \times$

(c)  $\div \text{ and } \times$

(d)  $\div \text{ and } +$

14.  $256 - 4 \times 2 + 200 \div 19 = 309$

SSC CGL 20/07/2023

(a)  $- \text{ and } +$

(b)  $\div \text{ and } +$

(c)  $\div \text{ and } -$

(d)  $+ \text{ and } \times$

15.  $15 \div 3 + 15 - 3 \times 3 = 47$

SSC CGL 20/07/2023

- (a) - and  $\times$   
 (b)  $\div$  and +  
 (c)  $\div$  and  $\times$   
 (d) + and -

16.  $459 + 17 \times 12 \div 72 - 47 = 349$

SSC CGL 21/07/2023

- (a)  $\div$  and +  
 (b)  $\div$  and -  
 (c) + and  $\times$   
 (d) - and +

17.  $5 \times 15 \div 3 + 20 - 9 = 4$

SSC CGL 21/07/2023

- (a) 5 and 20  
 (b) 15 and 20  
 (c) 3 and 9  
 (d) 4 and 20

## Type-3

1. If '+' means 'subtraction', '-' means 'multiplication', ' $\div$ ' means 'addition' and ' $\times$ ' means 'division', then what is the value of the following expression ?

यदि '+' का अर्थ 'घटाना' है, '-' का अर्थ 'गुणा' है, ' $\div$ ' का अर्थ 'जोड़' है और ' $\times$ ' का अर्थ 'भाग' है, तो निम्नलिखित अभिव्यक्ति का मूल्य क्या है?

$3 - 21 + 153 \times 17 \div 26$

SSC CGL 18/07/2023

- (a) 84 (b) 80  
 (c) 76 (d) 58

2. If '+' means 'subtraction', '-' means 'multiplication', ' $\div$ ' means 'addition' and ' $\times$ ' means 'division', then what is the value of the following expression ?

यदि '+' का अर्थ 'घटाना' है, '-' का अर्थ 'गुणा' है, ' $\div$ ' का अर्थ 'जोड़' है और ' $\times$ ' का अर्थ 'भाग' है, तो निम्नलिखित अभिव्यक्ति का मूल्य क्या है?

$23 - 31 + 135 \times 15 \div 16$

SSC CGL 20/07/2023

- (a) 698 (b) 794  
 (c) 680 (d) 720

3. If '+' means 'multiplication', '-' means 'division', ' $\times$ ' means 'subtraction' and ' $\div$ ' means 'addition', then what is the value of the following expression ?

यदि '+' का अर्थ 'गुणा', '-' का अर्थ 'भाग', ' $\times$ ' का अर्थ 'घटाव' और ' $\div$ ' का अर्थ 'जोड़' है, तो निम्नलिखित अभिव्यक्ति का मूल्य क्या है?

$26 + 342 - 19 \times 73 \div 14$

SSC CGL 20/07/2023

- (a) 481 (b) 409  
 (c) 524 (d) 510

4. If '+' means 'subtraction', '-' means 'multiplication', ' $\div$ ' means 'addition' and ' $\times$ ' means 'division', then what is the value of the following expression ?

यदि '+' का अर्थ 'घटाना' है, '-' का अर्थ 'गुणा' है, ' $\div$ ' का अर्थ 'जोड़' है और ' $\times$ ' का अर्थ 'भाग' है, तो निम्नलिखित अभिव्यक्ति का मूल्य क्या है?

$14 - 19 + 240 \times 16 \div 61$

SSC CGL 24/07/2023

- (a) 284 (b) 312  
 (c) 247 (d) 329

## Type-4

1.  $18 - 6 + 11 \times 5 + 18 = 113$

SSC CGL 18/07/2023

- (a) 6 and 5, + and  $\times$   
 (b) 18 and 5, + and  $\times$   
 (c) 6 and 5, - and  $\times$   
 (d) 18 and 5, - and  $\times$

2.  $14 + 16 - 14 \times 9 \div 4 = 61$

SSC CGL 19/07/2023

- (a) 16 and 14, + and  $\times$   
 (b) 16 and 9, + and -  
 (c) 14 and 4, - and  $\div$   
 (d) 14 and 9, + and  $\times$

3.  $512 \times 64 \div 5 + 30 - 50 = 20$

SSC CGL 19/07/2023

- (a) 50 and 64, + and  $\times$   
 (b) 20 and 30, + and  $\div$   
 (c) 20 and 50,  $\times$  and  $\div$   
 (d) 5 and 20, + and -

4.  $24 \times 9 + 6 \div 24 - 18 = 22$

SSC CGL 19/07/2023

- (a) 18 and 22, + and -  
 (b) 24 and 6,  $\times$  and +  
 (c) 6 and 9,  $\div$  and +  
 (d) 6 and 18,  $\div$  and  $\times$

5.  $25 - 10 \div 5 + 15 \times 30 = 55$

SSC CGL 19/07/2023

- (a) 30 and 25,  $\times$  and  $\div$   
 (b) 15 and 10,  $\div$  and +  
 (c) 15 and 10,  $\times$  and -  
 (d) 5 and 10, + and -

6.  $7 \times 14 \div 6 + 12 + 6 = 30$

SSC CGL 21/07/2023

- (a) 7 and 6,  $\times$  and  $\div$   
 (b) 7 and 14,  $\times$  and  $\div$   
 (c) 7 and 6,  $\div$  and +  
 (d) 7 and 14,  $\times$  and +

7.  $24 - (9 \div 12) + (84 \times 4) + 28 = 23$

SSC CGL 21/07/2023

- (a) 24 and 28, - and  $\div$   
 (b) 24 and 28,  $\times$  and  $\div$   
 (c) 9 and 4,  $\div$  and  $\times$   
 (d) 12 and 4,  $\div$  and  $\times$

8.  $3 - 17 + 3 + 16 \times 8 = 60$

SSC CGL 21/07/2023

- (a) 17 and 8, - and  $\times$   
 (b) 3 and 17, - and  $\times$   
 (c) 3 and 16, - and  $\times$   
 (d) 17 and 16, - and  $\times$

9.  $(31 \times 3) - (27 \times 4) + (81 \div 9) = 126$

SSC CGL 21/07/2023

- (a) 27 and 81, + and -  
 (b) 31 and 27, + and -  
 (c) 3 and 4,  $\div$  and +  
 (d) 27 and 9, + and -

### Answer keys:-

Type:- 1

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 1.(d)  | 2.(a)  | 3.(a)  | 4.(d)  | 5.(c)  |
| 6.(a)  | 7.(d)  | 8.(c)  | 9.(d)  | 10.(d) |
| 11.(a) | 12.(b) | 13.(d) | 14.(c) | 15.(a) |
| 16.(c) | 17.(a) | 18.(d) | 19.(b) | 20.(b) |

Type:- 2

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 1.(a)  | 2.(a)  | 3.(d)  | 4.(b)  | 5.(a)  |
| 6.(d)  | 7.(a)  | 8.(c)  | 9.(c)  | 10.(a) |
| 11.(a) | 12.(c) | 13.(c) | 14.(c) | 15.(a) |
| 16.(a) | 17.(d) |        |        |        |

Type:- 3

|       |       |       |       |
|-------|-------|-------|-------|
| 1.(b) | 2.(d) | 3.(b) | 4.(b) |
|-------|-------|-------|-------|

Type:- 4

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1.(c) | 2.(b) | 3.(c) | 4.(c) | 5.(c) |
| 6.(b) | 7.(d) | 8.(d) | 9.(d) |       |

