Previous Year Topic-wise SSC CGL 2022

Smart Practice Question Series

ASIAN ONLINE

GENERAL INTELLIGENCE AND REASONING

Chapter 9 : Mathematical Operation

Mathematical Operation

1. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
× and ÷, 3 and 9
   I.   7 × 9 − 8 ÷ 2 + 3
   II.   4 × 9 − 3 + 8 ÷ 2
   A.   0, 1
   B.   -26, -29
   C.   6, 0
   D.   12, 13

Mathematical Operation

2. Select the correct combination of mathematical signs to replace the * signs and balance the given equation.

21 * 4 * 156 * 13 * 11 = 83

A.   −, ÷, ×, +
B.   ×, +, ÷, −
C.   ×, −, ÷, +
D.   +, ÷, −, ×

Mathematical Operation

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3. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

12 * 24 * 4 * 2 * 60

A.   +, ×, ÷, =
B.   −, ×, +, =
C.   +, ×, −, =
D.   +, ÷, ×, =

Mathematical Operation

SSC CGL
Tier-1

1 Dec, 2022
Shift 2 (11:45 am-
12:45 pm)

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4. If '+' means ' ', ' – ' means '+', ' ' means ' – ' and ' ' means ' ', what will be the value of the following expression?

[{(38 × 23) – (4 ÷ 3)} + (6 – 3)] ÷ 2

A. A 6
B. B 3
C. C 8
D. D 12

Mathematical Operation

SSC CGL
Tier-1

1 Dec, 2022
Shift 2 (11:45 am-12:45 pm)

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5. Which two signs and two numbers should be interchanged in the following equation to make it correct?

150 × 15 + 14 − 9 ÷ 2 = 6

A.   9, 2, −, ×
B.   9, 2, ÷, ×
C.   150, 2, ÷, −
D.   15, 9, +, ÷

Mathematical Operation

6. If A × B means that A is the father of B, A + B means that A is the mother of B, A ÷ B means that A is the brother of B then which of the following expression shows that Q is the son of P?
   A.   Q + P × R
   B.   P + Q × R
   C.   R × Q + P
   D.   P + Q ÷ R

Mathematical Operation

7. Which of the following interchange of numbers and mathematical signs would make the given equation correct?

30 ÷ 6 × 4 + 15−35 = 25

A. 25 and 30, × and −
B. 4 and 6, + and −
C. 25 and 35, × and ÷
D. 30 and 35, − and ÷

Mathematical Operation

8. If A + B means that A is the father of B, A - B means that A is the mother of B, A × B means that A is the brother of B then which of the following expression shows that Q is the son of P?
   A.   P × P – Q
   B.   P + Q – R
   C.   P – Q × R
   D.   P – Q + R

Mathematical Operation

9. By Interchanging the given two numbers which of the following equation will be not correct? 3 and 8
   A. $7 + 3 - 4 \div 2 \times 8 = 9$
   B. $6 \div 2 \times 8 + 3 - 1 = 17$
   C. $8 - 3 + 6 \times 2 \div 4 = -2$
   D. $2 + 3 - 6 \div 2 \times 8 = 1$

Mathematical Operation

10. By interchanging the given two signs which of the following equation will be correct?

÷ and +

A. 8 + 4 × 5 ÷ 2 − 6 = 7

B. 16 + 8 × 2 ÷ 6 − 4 = 8

C. 18 + 2 × 6 ÷ 3 − 7 = 50

D. 11 + 8 × 16 ÷ 4 − 7 = 20

Mathematical Operation

11. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$(6)^3 \div 12 + [(\sqrt{81}) \times 4] - (28 \div 2) + 24 = 43$

A. 12 and 24
B. 6 and 24
C. 81 and 4
D. 28 and 24

Mathematical Operation

12. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

35 * 5 * 7 * 2 * 19 = 42

A. ×, ÷, −, +
B. ÷, ×, +, +
C. +, −, +, −
D. ÷, ×, −, −

Mathematical Operation

13. Which of the following interchanges of numbers and mathematical signs would make the given equation correct?

    $729 × 81 ÷ 20 + 16 − 6 = 50$

    A. 6 and 20, × and ÷
    B. 20 and 50, + and −
    C. 16 and 50, × and +
    D. 16 and 20, + and ÷

Mathematical Operation

14. By interchanging the given two signs and numbers which of the following equation will be not correct?

    × and –, 8 and 4

    I.   4 + 3 × 8 – 2 ÷ 1 = 3
    II.   8 × 2 – 4 + 6 ÷ 2 = 11
    A.   Both I and II
    B.   Only II
    C.   Neither I nor II
    D.   Only I

Mathematical Operation

15. By interchanging the given two signs which of the following equation will be not correct ?
+ and −
A. $3 \times 2 - 72 \div 6 + 8 = 18$
B. $15 + 3 \times 4 - 6 \div 2 = 6$
C. $3 + 4 - 2 \times 5 \div 1 = 9$
D. $8 \div 4 \times 6 + 5 - 9 = 16$

Mathematical Operation

16. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

65 * 45 * 25 * 5 * 35 * 60

A.   −, +, −, +, =
B.   +, −, +, −, =
C.   −, +, ÷, +, =
D.   +, ×, +, −, =

Mathematical Operation

17. By interchanging the given two signs and numbers which of the following equation will be correct?

× and , 7 and 9

A. 9 + 4 × 3 − 7 ÷ 1 = 40
B. 8 × 3 ÷ 6 + 9 − 7 = 14
C. 9 × 3 + 4 ÷ 2 − 7 = 18
D. 7 × 2 + 6 ÷ 3 = 11

Mathematical Operation

18. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

+ and , 5 and 4

I. $4 + 6 × 5 − 7 ÷ 1$

II. $5 × 3 − 4 + 8 ÷ 2$

A. -9, -8

B. 30, -13

C. 20, 6

D. 27, -13

Mathematical Operation

19. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

99 * 33 * 66 * 22 * 44 * 50

A. ÷, +, ×, +, =
B. +, −, ÷, −, =
C. ÷, +, ÷, +, =
D. ÷, −, +, ×, =

Mathematical Operation

20. By interchanging the given two signs and numbers which of the following equation will be correct?

× and , 9 and 6

A. 7 × 6 ÷ 3 + 9 − 8 = 17
B. 6 × 8 − 9 ÷ 3 + 5 = 50
C. 7 + 6 × 4 ÷ 9 − 8 = 8
D. 9 × 7 + 4 ÷ 1 − 6 = 7

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Mathematical Operation

21. If means that A is the father of B, means that A is the mother of B, means that A is the brother of B then which of the following expression shows that Q is the daughter of P?
    A.   P ÷ Q × R
    B.   P ÷ Q + R
    C.   P × Q ÷ R
    D.   P + Q ÷ R

Mathematical Operation

22. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

17 * 11 * 42 * 2 * 7 = 18

A. − + × ÷

B. + − + ×

C. − + × ×

D. − + ÷ ÷

Mathematical Operation

23. By interchanging the given two signs which of the following equation will be not correct?
    + and −
    A. $18 + 8 \times 6 \div 3 − 11 = 13$
    B. $4 \times 6 + 7 − 3 \div 1 = 20$
    C. $18 \div 3 + 8 \times 5 − 4 = 30$
    D. $6 \times 9 + 7 − 8 \div 2 = 51$

Asian Online Smart Practice

Mathematical Operation

24. By interchanging the given two signs and numbers which of the following equation will be correct?
+ and −, 2 and 4
   A. $9 − 5 ÷ 4 × 2 + 8 = 80$
   B. $5 + 7 × 4 − 8 ÷ 2 = 5$
   C. $7 × 4 − 2 ÷ 1 + 5 = 13$
   D. $7 − 8 ÷ 2 + 16 × 4 = 18$

Mathematical Operation

25. By interchanging the given two signs which of the following equation will be not correct?
    − and ×
    A. 7 × 2 + 27 ÷ 9 − 4 = 18
    B. 7 × 8 + 4 ÷ 2 − 6 = 11
    C. 11 + 6 × 3 − 8 ÷ 2 = 5
    D. 5 − 6 × 3 + 16 ÷ 4 = 31

Mathematical Operation

26. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

25 * 5 * 10 * 2 * 13

A.   ÷, +, −, =
B.   ÷, ×, −, =
C.   ÷, −, +, =
D.   ×, +, −, =

Mathematical Operation

27. By interchanging the given two signs which of the following equation will be not correct?
    – and ÷
    A.   12 – 4 + 11 × 3 ÷ 8 = 28
    B.   35 – 5 + 8 ÷ 4 × 3 = 3
    C.   20 × 8 – 4 ÷ 2 + 7 = 50
    D.   10 + 8 × 6 – 4 ÷ 2 = 20

Mathematical Operation

28. By Interchanging the given two numbers which of the following equation will be not correct?
    5 and 9
    A. 9 × 4 + 5 − 8 ÷ 2 = 25
    B. 9 − 5 × 4 + 6 ÷ 3 = −30
    C. 9 + 7 × 8 ÷ 4 − 5 = 10
    D. 9 − 4 × 5 + 6 ÷ 2 = −28

Mathematical Operation

29. Which two signs and two numbers should be interchanged in the following equation to make it correct?

14 × 6 ÷ 12 + 15−9 = 203

A. 15, 6, +, ÷
B. 12, 15, −, ×
C. 12, 9, ÷, −
D. 14, 6, ÷, ×

Mathematical Operation

30. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

20 * 2 * 50 * 5 * 115

A. −, ×, =, +

B. +, ×, =, −

C. +, ×, −, =

D. −, ×, +, =

Mathematical Operation

31. By interchanging the given two signs and numbers which of the following equation will be correct?

−and +, 6 and 3

A.   7 − 3 × 2 ÷ 6 + 4 = 17
B.   7 + 6 ÷ 3 × 8 − 5 = 35
C.   9 − 6 × 4 + 3 × 7 = 8
D.   8 × 3 − 6 + 4 ÷ 2 = 49

Mathematical Operation

32. Which of the following interchange of mathematical signs would make the given equation correct?

20 ÷ 4 × 8 + 16−15 = 11

A. +, ×
B. +, −
C. −, ÷
D. ×, ÷

Mathematical Operation

33. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

25 * 4 * 6 * 2 * 17

A.   −, +, ×, =

B.   +, −, ÷, =

C.   +, −, ×, =

D.   +, −, =, +

Mathematical Operation

34. By interchanging the given two signs and numbers which of the following equation will be correct?

+ and , 1 and 2

A. 8 × 3 − 4 ÷ 2 + 1 = 7
B. 2 × 3 − 8 ÷ 1 + 9 = 18
C. 8 × 3 − 4 ÷ 2 + 1 = 3
D. 2 × 3 − 8 ÷ 1 + 2 = 5

Mathematical Operation

35. By interchanging the given two signs and numbers which of the following equation will be not correct?
    × and , 2 and 6
    I.   7 − 4 × 3 ÷ 6 + 2 = 8
    II.   6 − 8 × 2 + 9 ÷ 3 = 5
    A.   Only II
    B.   Neither I nor II
    C.   Only I
    D.   Both I and II

Mathematical Operation

36. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?
    – and , 6 and 4
    I. $7 × 6 + 8 ÷ 2 − 4$
    II. $4 − 7 × 6 + 8 ÷ 2$
    A.   A 27, 42
    B.   B 27, 47
    C.   C 27, 49
    D.   D 25, 40

Mathematical Operation

37. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$$(6)^2 - 20 + (28 \div 7) - [(\sqrt{4}) \times 8] + (2)^2 = 40$$

A. 6 and 8
B. 7 and 2
C. 2 and 8
D. 20 and 8

Mathematical Operation

38. By Interchanging the given two numbers which of the following equation will be not correct?
3 and 4
   A. $3 + 5 × 4 − 6 ÷ 2 = 16$
   B. $4 × 6 − 3 + 9 ÷ 1 = 25$
   C. $3 × 7 − 8 ÷ 2 + 4 = 27$
   D. $9 × 3 ÷ 6 + 4 − 8 = 1$

Mathematical Operation

39. By interchanging the given two signs and numbers which of the following equation will be correct?

+ and −, 7 and 3

A.   7 + 3 × 9 − 8 ÷ 2 = 30
B.   9 × 7 + 3 − 4 ÷ 2 = 18
C.   3 × 4 ÷ 2 + 7 − 5 = 16
D.   3 + 7 ÷ 1 − 4 × 2 = 16

Mathematical Operation

40. Which two signs should be interchanged to make the given equation correct?
(50 ÷ 3) * 15 + 25–10 = 25
A.   ÷ and –
B.   + and *
C.   ÷ and *
D.   + and –

Mathematical Operation

41. If A × B means that A is the father of B, A + B means that A is the mother of B, A - B means that A is the brother of B then which of the following expression shows that Q is the brother of P?
A. P + Q – R
B. P – Q + R
C. P × R – Q
D. P – Q × R

Mathematical Operation

42. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

× and ÷ , 7 and 9

I. $8 \times 3 \div 6 + 9 - 7$
II. $9 - 7 \times 1 + 6 \div 3$

A. A 0, 8
B. B 14, 16
C. C 6, 9
D. D 10, 11

Mathematical Operation

SSC CGL
Tier-1

**5 Dec, 2022
Shift 4 (5:30-6:30
pm)**

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43. By interchanging the given two signs which of the following equation will be correct?
    × and +
    A. $7 \times 8 \div 9 + 18 - 11 = 16$
    B. $24 - 8 - 5 \times 5 + 3 = 14$
    C. $5 \times 10 - 15 + 20 \div 25 = 8$
    D. $24 \times 8 + 6 \div 3 - 18 = 22$

Mathematical Operation

44. Which two numbers from amongst the given options should be interchanged to make the given equation correct?

    248 ÷ 4 + 184 ÷ (4 × 6 − 2 × 8) = 77

    A. 8 and 4
    B. 184 and 77
    C. 184 and 248
    D. 4 and 6

Mathematical Operation

45. If K ÷ L means that K is the mother of L, K - L means that K is the father of L, K × L means that K is the sister of L, then which of the following expression shows that P is the paternal grandmother of R?

A. P ÷ Q × R
B. R – Q ÷ P
C. P ÷ Q – R
D. Q ÷ P – R

Mathematical Operation

46. By interchanging the given two signs which of the following equation will be not correct?
    × and −
    A.   15 + 5 ÷ 1 − 9 × 4 = 70
    B.   5 − 6 × 3 + 16 ÷ 4 = 31
    C.   11 + 6 × 3 − 8 ÷ 2 = 5
    D.   15 − 4 × 3 + 6 ÷ 1 = 63

Mathematical Operation

47. Select the correct combination of mathematical signs to replace the * signs and balance the given equation.

5 * 15 * 320 * 2 * 45 = 190

A.   +, ÷, ×, −
B.   ×, +, ÷, −
C.   +, ×, ÷, −
D.   ×, ÷, −, +

Mathematical Operation

48. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

30 * 4 * 2 * 1 * 121

A. ×, +, −, =
B. ×, −, ÷, =
C. ×, −, +, =
D. ÷, +, −, =

Mathematical Operation

49. If X × Y means that X is the father of B, X ÷ B means that X is the mother of B, X - Y means that X is the brother of Y then which of the following expression shows that A is the father of C?
    A.   A – B × C
    B.   A × C – B
    C.   A × B ÷ C
    D.   A × B – C

Mathematical Operation

50. By interchanging the given two signs which of the following equation will be correct?
    + and ÷
    A. 9 × 18 + 27 ÷ 36 − 30 = 18
    B. 9 + 3 × 2 − 8 ÷ 1 = −1
    C. 16 + 8 × 2 ÷ 6 − 9 = 10
    D. 16 + 2 × 6 ÷ 3 − 7 = 50

Mathematical Operation

51. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$14 + 39 - (\sqrt{144} \div 4) + (5 \times 3) - 6 = 63$

A. 14 and 6
B. 5 and 39
C. 4 and 3
D. 4 and 6

Mathematical Operation

52. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

× and −, 4 and 5

I. $9 \div 3 \times 6 + 5 - 4$

II. $5 - 4 \times 3 + 6 \div 2$

A. 17, 20
B. 8, 6
C. 16, 20
D. 20, 17

Mathematical Operation

53. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

25 * 2 * 220 * 11 * 43

A.   +, −, ×, =
B.   +, −, ÷, =
C.   +, +, ÷, =
D.   −, +, ÷, =

Mathematical Operation

54. Select the correct combination of mathematical signs to sequentially replace the # signs and to balance the given equation.

[{(44 # 38) # (2 # 5)} # (4 # 2)] # 5 # 10

A.   ×, ÷, ×, ×, −, +, =
B.   ×, −, +, ×, ÷, ×, =
C.   −, +, ×, ×, ÷, ×, =
D.   −, +, ×, ÷, ×, ×, =

Mathematical Operation

55. By interchanging the given two signs and numbers which of the following equation will be correct?
+ and −, 7 and 6
A. 4 × 7 + 6 − 3 ÷ 1 = 20
B. 8 × 7 + 5 ÷ 1 − 6 = 17
C. 7 − 6 × 3 + 4 ÷ 1 = 8
D. 7 × 2 − 6 + 4 ÷ 2 = 13

Mathematical Operation

56. Which of the following interchanges of numbers would make the given equation correct?

$7 \times 4 \div 14 + 12 + 30 = 50$

A. 12, 14
B. 7, 14
C. 4, 7
D. 30, 50

Mathematical Operation

57. By interchanging the given two signs which of the following equation will be correct?
+ and ÷

   A. $7 + 5 × 2 − 8 ÷ 4 = 36$

   B. $95 ÷ 19 + 5 × 3 − 6 = 22$

   C. $13 + 4 × 5 − 6 ÷ 2 = 51$

   D. $4 × 3 + 6 − 7 ÷ 1 = 18$

Mathematical Operation

58. If A × B means that A is the brother of B, A ÷ B means that A is the sister of B, A + B means that A is the father of B then which of the following expression shows that P is the sister of R?
    A. P + Q × R
    B. P ÷ Q × R
    C. P × Q ÷ R
    D. P ÷ Q + R

Mathematical Operation

59. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

+ and −, 6 and 9

I. $6 - 5 \times 9 + 8 \div 2$

II. $6 - 4 + 9 \times 5 \div 3$

A. A 17, 5
B. B 81, 16
C. C 35, 3
D. D 54, 5

Mathematical Operation

60. Which two signs and two numbers should be interchanged in the following equation to make it correct?

98−9 × 21 ÷ 7 + 56 = 69

A. 56 and 9, + and ×
B. 56 and 21, + and ×
C. 98 and 9, + and ×
D. 21 and 7, + and −

Mathematical Operation

61. By interchanging the given two signs which of the following equation will be correct?
+ and −
A. 55 ÷ 11 − 15 + 3 × 2 = 15
B. 4 × 3 − 6 ÷ 2 + 7 = 7
C. 15 − 7 × 8 + 18 ÷ 3 = 65
D. 529 ÷ 23 + 10 − 5 × 4 = 30

Mathematical Operation

62. Select the correct combination of mathematical signs to sequentially replace the % signs and to balance the given equation.

[{(32 % 28) % (6 % 4)} % (1 % 7)] % 5 % 20

A. −, +, ×, ÷, ×, ×, =
B. ×, ÷, ×, ×, −, +, =
C. ×, −, +, ×, ÷, ×, =
D. −, +, ×, ×, ×, ×, =

Mathematical Operation

63. If A - B means that A is the father of B, A + B means that A is the mother of B, A × B means that A is the brother of B then which of the following expression shows that Q is the brother of P?
   A. P × Q – R
   B. P × Q + R
   C. R + P × Q
   D. Q × P – R

Mathematical Operation

64. By interchanging the given two signs which of the following equation will be not correct?
    + and ÷
    A.   12 ÷ 8 × 12 + 6 − 7 = 21
    B.   9 − 3 + 12 × 8 ÷ 4 = 11
    C.   46 + 23 ÷ 14 × 5 − 6 = 66
    D.   6 + 20 ÷ 12 × 7 − 11 = 70

Mathematical Operation

65. By Interchanging the given two numbers which of the following equation will be correct?
    5 and 8
    A.   5 × 2 − 8 + 9 ÷ 1 = 20
    B.   8 + 5 × 4 − 9 ÷ 3 = 30
    C.   5 × 7 + 8 − 3 ÷ 1 = 55
    D.   8 − 5 × 2 + 6 ÷ 2 = −9

Mathematical Operation

66. If '+' means ' ', '–' means '+', ' ' means '–' and ' ' means ' ', what will be the value of the following expression?

    [{(34 × 12) − (4 ÷ 3)} + (12 − 5)] ÷ 5

    A.   10
    B.   1
    C.   2
    D.   20

Mathematical Operation

67. Which two signs should be interchanged to make the given equation correct?

16 + 4 ÷ 2 * 12−4 = 40

A. + and *
B. 2+ and −
C. 3 ÷ and *
D. 4 ÷ and +

Mathematical Operation

68. Select the figure that will come next in the following figure series.
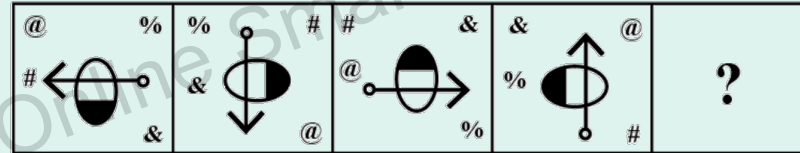
Mathematical Operation

69. Which two signs and two numbers should be interchanged in the following equation to make it correct?

20 − 10 × 342 ÷ 19 + 51 = 211

A. 51 and 20, - and +
B. 20 and 342, - and ÷
C. 10 and 20, - and ×
D. 19 and 342, × and ÷

Asian Online Smart Practice

Mathematical Operation

70. By interchanging the given two signs which of the following equation will be correct?
+ and −
A. $7 − 5 × 3 + 24 ÷ 6 = 7$
B. $20 ÷ 4 − 5 × 6 + 3 = 32$
C. $4 + 5 × 2 − 9 ÷ 3 = 5$
D. $7 × 3 − 10 + 8 ÷ 2 = 29$

Mathematical Operation

71. If A + B means that A is the father of B, A ÷ B means that A is the mother of B, A - B means that A is the brother of B then which of the following expression shows that P is the paternal grandmother of R?
    A. Q × P + R
    B. P × Q – R
    C. P + R × Q
    D. P × Q + R

Mathematical Operation

72. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

11 * 3 * 11 * 2 * 9 = 10

A. ×, ÷, −, +
B. ÷, ×, −, +
C. ÷, +, −, ×
D. ×, ÷, +, −

Mathematical Operation

73. Which two signs and two numbers should be interchanged in the following equation to make it correct?

264 + 24 × 9 ÷ 60 - 4 = 630

A. 264 and 9, ÷ and –
B. 264 and 9, + and -
C. 4 and 24, ÷ and +
D. 4 and 9, – and ×

Mathematical Operation

74. If L × M means that L is the mother of M, L - M means that L is the father of M, L $div $$ M means that L is the sister of M, then which of the following expression shows that R is the brother of P?
    A.   P ÷ R – Q
    B.   P × R – Q
    C.   P ÷ Q – R
    D.   P ÷ R × Q

Mathematical Operation

75. By interchanging the given two signs and numbers which of the following equation will be not correct?

− and ÷, 8 and 2

I. 5 + 7 − 8 × 4 ÷ 2 = 9

II. 3 + 8 × 4 − 2 ÷ 1 = 3

A. Neither I nor II
B. Only II
C. Both I and II
D. Only I

Mathematical Operation

76. Which two numbers and two signs should be interchanged to make the given equation correct?

$5 + 44 - 8 \times 25 = 203$

A. 8, 5 and −, +
B. 8, 44 and −, +
C. 8, 5 and −, ×
D. 8, 44 and −, ×

Mathematical Operation

77. If A × B means that A is the father of B, A + B means that A is the mother of B, A ÷ B means that A is the brother of B then which of the following expression shows that A is the paternal uncle of C?
   A.   A ÷ C + B
   B.   A ÷ B + C
   C.   A + B ÷ C
   D.   A ÷ B × C

Mathematical Operation

78. By interchanging the given two signs which of the following equation will be not correct?
– And ×
A.   20 × 12 + 6 – 16 ÷ 8 = 20
B.   16 × 91 ÷ 13 + 5 – 3 = 24
C.   20 × 8 – 4 ÷ 2 + 3 = 7
D.   4 × 5 – 36 ÷ 6 + 10 = 10

Mathematical Operation

79. Which two signs and two numbers should be interchanged in the following equation to make it correct?

686−14 × 49 + 400 ÷ 5 = 596

A. 5 and 49, ÷ and –
B. 686 and 5, + and -
C. 14 and 49, × and -
D. 14 and 5, + and ×

Mathematical Operation

80. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.
59 * 12 * 6 * 24 * 2 * 105
A. −, +, −, +, =
B. ×, −, +, ×, =
C. +, ×, +, −, =
D. −, ÷, +, ×, =

Mathematical Operation

81. If A ÷ B means that A is the brother of B, A × B means that A is the sister of B, A - B means that A is the father of B then which of the following expression shows that P is the father of R?
   A.   P – Q × R
   B.   P × Q – R
   C.   P ÷ Q × P
   D.   P – Q ÷ R

Mathematical Operation

82. By interchanging the given two signs which of the following equation will be correct?
× and −
A. 7 × 9 − 8 ÷ 2 + 6 = 25
B. 8 × 6 − 9 ÷ 3 + 10 = 0
C. 16 − 4 ÷ 2 + 8 × 1 = 36
D. 5 + 7 × 3 − 4 ÷ 2 = 8

Mathematical Operation

83. By interchanging the given two signs which of the following equation will be correct?
÷ and +
A. 18 ÷ 24 − 6 × 6 + 3 = 32
B. 12 − 8 + 12 × 9 ÷ 3 = 10
C. 12 ÷ 8 × 3 + 6 − 10 = 8
D. 7 + 21 × 42 ÷ 14 − 9 = 19

Mathematical Operation

84. Which two signs should be interchanged to make the given equation correct?

    108 ÷ 2 * 10 + 70 – 10 = 480

    A. A + and -
    B. B ÷ and *
    C. C + and *
    D. D ÷ and –

Mathematical Operation

85. If A - B means that A is the brother of B, A + B means that A is the sister of B, A B means that A is the father of B then which of the following expression shows that P is the paternal uncle of R?
    A. P + Q ÷ R
    B. P ÷ Q – R
    C. P – Q ÷ R
    D. P – Q + R

Mathematical Operation

86. Which two signs and two numbers should be interchanged in the following equation to make it correct?

$189 \div 2 \times 30 + 18 - 5 = 159$

A. 189 , 30 and + , ÷
B. 18 , 30 and ÷, −
C. 2 , 30 and ÷, ×
D. 30 , 18 and −, ×

Mathematical Operation

87. By Interchanging the given two numbers which of the following equation will be correct?

7 and 3

A. $3 \div 1 - 7 \times 2 + 4 = 8$

B. $3 \times 2 + 7 - 6 \div 3 = 18$

C. $3 + 7 \times 4 - 6 \div 2 = 20$

D. $7 + 3 \times 2 - 4 \div 1 = 13$

Mathematical Operation

88. Which two signs and two numbers should be interchanged in the following equation to make it correct?

40 − 220 ÷ 2 × 2 + 20 = 200

A. 20 and 40, + and −
B. 2 and 20, ÷ and +
C. 220 and 40, + and ×
D. 220 and 20, ÷ and ×

Mathematical Operation

89. Which two signs should be interchanged to make the given equation correct?

7 * 9 + 3 ÷ 7−3 = 25

A. ÷ and *
B. ÷ and +
C. + and *
D. + and –

Mathematical Operation

90. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

× and −, 4 and 2

I. $7 - 5 \times 4 + 8 \div 2$

II. $7 \times 3 - 8 \div 2 + 4$

A.   25, 23

B.   37, 25

C.   35, 3

D.   41, 47

Mathematical Operation

91. By interchanging the given two signs and numbers which of the following equation will be not correct?

+ and × , 5 and 4

I. 4 + 8 × 5 − 7 ÷ 1 = 37

II. 5 × 3 − 4 + 6 ÷ 2 = −8

A. Only II
B. Neither I nor II
C. Only I
D. Both I and II

Mathematical Operation

92. Which two signs and two numbers should be interchanged in the following equation to make it correct?

60 × 3 + 660 ÷ 6 − 20 = 290

A. 6and660,\timesand\div$$

B. 20and6,+and-$$

C. 20and60,+and\time$$

D. 20and660,+and\div$$

Mathematical Operation

93. Which two signs should be interchanged to make the given equation correct?

$81 + 3 \div 9 * 5 - 12 = 60$

A. ÷ and +

B. ÷ and *

C. ÷ and −

D. + and −

Mathematical Operation

94. By Interchanging the given two numbers which of the following equation will be correct?
8 and 2
   A. $7 \div 2 - 8 \times 4 + 1 = 0$
   B. $2 \times 4 - 8 + 5 \div 1 = 50$
   C. $8 \times 4 + 6 - 2 \div 1 = 6$
   D. $8 \times 4 - 9 \div 3 + 2 = 35$

Mathematical Operation

95. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$18 + (12 × 6) + (63 ÷ 7) × 4 + (27)^{\frac{1}{3}} − 11 = 112$

A. 18 and 11
B. 12 and 4
C. 6 and 4
D. 18 and 12

Mathematical Operation

96. By Interchanging the given two numbers which of the following equation will be correct?
    5 and 9
    A. $9 - 5 \times 4 + 6 \div 3 = 30$
    B. $9 \times 3 + 5 \div 1 - 6 = 20$
    C. $7 \times 9 + 5 - 8 \div 4 = 40$
    D. $9 \times 4 + 5 - 8 \div 2 = 25$

Mathematical Operation

97. By interchanging the given two signs and numbers which of the following equation will be correct?

+ and −, 6 and 3

A. 8 − 3 × 4 ÷ 6 + 9 = 18
B. 8 + 4 × 6 ÷ 3 − 9 = 15
C. 9 ÷ 3 × 4 − 6 + 7 = 10
D. 6 ÷ 2 × 8 + 3 − 1 = 20

Mathematical Operation

98. Which two signs should be interchanged to make the given equation correct?

    81 * 9 + 15 ÷ 3 - 4 = 50

    A. – and *
    B. + and –
    C. ÷ and –
    D. ÷ and *

Mathematical Operation

99. If A × B means that A is the father of B, A ÷ B means that A is the mother of B, A + B means that A is the brother of B then which of the following expression shows that P is the paternal grandmother of R?
   A. P × Q ÷ R
   B. P ÷ R × Q
   C. P ÷ Q + R
   D. P ÷ Q × R

Mathematical Operation

100. By interchanging the given two signs and numbers which of the following equation will be not correct?

+ and −, 3 and 5

A. $5 - 3 + 8 × 4 ÷ 2 = 10$
B. $5 × 4 - 3 + 4 ÷ 2 = 15$
C. $7 × 4 ÷ 2 - 5 + 3 = 12$
D. $5 × 4 + 3 - 6 ÷ 2 = 10$

Mathematical Operation

101. Which two signs and two numbers should be interchanged in the following equation to make it correct?

13−65 ÷ 45 × 21 + 2 = 82

A. 45 and 13, × and +
B. 65 and 13, × and +
C. 45 and 21, × and +
D. 45 and 13, − and +

Mathematical Operation

102. By interchanging the given two signs which of the following equation will be not correct?
+ and ÷
A.   18 + 6 − 6 ÷ 3 × 3 = 6
B.   6 × 9 + 3 − 24 ÷ 8 = 2
C.   18 + 2 × 6 ÷ 3 − 7 = 50
D.   7 × 8 ÷ 4 + 2 − 6 = 49

Mathematical Operation

103. Which of the following interchange of numbers and mathematical signs would make the given equation correct?

72 ÷ 6−20 + 30 × 5 = 70

A. 5 and 20, − and ×
B. 20 and 30, × and ÷
C. 5 and 70, + and −
D. 6 and 20, + and ÷

Mathematical Operation

104. Which two signs should be interchanged to make the given equation correct?

$34 \div 16 + 4 * 8 - 6 = 60$

A.   - and *
B.   + and *
C.   ÷ and –
D.   ÷ and +

Mathematical Operation

105. By Interchanging the given two numbers which of the following equation will be not correct?
7 and 9
   A. 8 × 3 ÷ 6 + 9 − 7 = 2
   B. 7 + 6 − 9 × 4 ÷ 2 = 2
   C. 9 × 3 + 4 ÷ 2 − 7 = 14
   D. 9 + 4 × 3 − 7 ÷ 1 = 10

Mathematical Operation

106. By Interchanging the given two numbers which of the following equation will be not correct?

4 and 2

A. 4 × 3 − 8 ÷ 2 + 7 = 11
B. 4 − 8 × 3 + 2 ÷ 1 = −18
C. 8 ÷ 4 × 2 − 6 + 9 = 18
D. 6 × 4 − 8 ÷ 2 + 7 = 17

Mathematical Operation

107. If X × Y means that X is the mother of Y, X – Y means that X is the father of Y, X ÷ Y means that X is the sister of Y, then which of the following expression shows that P is the paternal grandfather of R?

A. P – Q ÷ R
B. P × Q – R
C. P – Q × R
D. Q – P × R

Mathematical Operation

108. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

16 * 3 * 2 * 11 * 9 = 22

A. ÷ + × ÷
B. × ÷ + −
C. ÷ × + +
D. × ÷ − +

Mathematical Operation

109. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

50 * 10 * 20 * 5 * 105

A. ÷, ×, +, =
B. ×, −, +, =
C. ÷, ×, −, =
D. ×, ÷, +, =

Mathematical Operation

110. Which of the following interchange of numbers and mathematical signs would make the given equation correct?

28 + 7 × 10 ÷ 5−20 = 5

A. 7 and 28, × and ÷
B. 5 and 10, + and ÷
C. 5 and 20, − and ÷
D. 10 and 20, × and +

Mathematical Operation

111. By Interchanging the given two numbers which of the following equation will be correct?
4 and 6
A. $4 \times 3 + 6 - 2 \div 1 = 21$
B. $4 - 6 \div 2 + 3 \times 5 = 20$
C. $4 \div 2 + 3 - 6 \times 5 = -14$
D. $9 \div 3 + 6 \times 5 - 4 = 18$

Mathematical Operation

112. If A × B means that A is the brother of B, A - B means that A is the sister of B, A + B means that A is the father of B then which of the following expression shows that P is the father of R?
  A. P – Q × R
  B. P × Q + R
  C. P + Q ÷ R
  D. P + Q × R

Mathematical Operation

113. Which two numbers from amongst the given options should be interchanged to make the given equation correct? $168 \div 4 + 216 \div (78 \times 1 - 8) = 14$
    A. 78 and 216
    B. 14 and 8
    C. 78 and 14
    D. 216 and 168

Mathematical Operation

114. Select the correct combination of mathematical signs to sequentially replace the & signs, and to balance the given equation.

[{(42 & 26) & (12 & 2)} & (4 & 5)] & 5 & 10

A. ×, ÷, ×, ×, −, +, =

B. ×, −, +, ×, ÷, ×, =

C. −, +, ×, ×, ÷, ×, =

D. −, +, ×, ÷, ×, ×, =

Mathematical Operation

115. By Interchanging the given two numbers which of the following equation will be not correct?
7 and 4
A. $8 \div 6 \times 9 + 7 - 4 = 12$
B. $7 \times 8 + 4 - 6 \div 3 = 37$
C. $9 - 4 \times 3 + 6 \times 7 \div 1 = 12$
D. $4 \times 8 - 9 \div 3 + 7 = 57$

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Mathematical Operation

116. By Interchanging the given two numbers which of the following equation will be not correct?

9 and 6

A. $7 + 6 \times 4 \div 9 - 8 = 5$

B. $6 \times 8 - 9 \div 3 + 5 = 75$

C. $9 \times 7 + 4 \div 1 - 6 = 38$

D. $7 \times 6 \div 3 + 9 - 8 = 19$

Mathematical Operation

117. By Interchanging the given two numbers which of the following equation will be correct?
2 and 8
   A. 8 ÷ 1 + 4 × 2 − 3 = 18
   B. 7 × 2 + 6 ÷ 3 − 8 = 60
   C. 2 × 4 − 8 + 6 ÷ 3 = 33
   D. 8 × 4 + 6 − 2 ÷ 1 = 6

Mathematical Operation

118. Which two signs should be interchanged to make the given equation correct?

$95 × 5 + 19 ÷ 2 − 21 = 36$

A. ÷ and ×
B. + and -
C. ÷ and -
D. + and ×

Mathematical Operation

119. After interchanging the given two numbers and two signs what will be the values of equation (I) and (II) respectively?

÷ and ×, 1 and 3

I.   6 + 4 − 9 × 3 ÷ 1

II.   4 × 3 − 1 + 8 ÷ 2

A. 26, 17

B. -17, 17

C. 9, 18

D. 11, 15

Mathematical Operation

120. Which two signs and two numbers should be interchanged in the following equation to make it correct?

78 + 456−45 × 12 ÷ 4 = 519

A. 12 and 4, − and ×
B. 78 and 456, ÷ and ×
C. 45 and 12, + and ÷
D. 456 and 45, ÷ and −

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Mathematical Operation

121. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$$[(\sqrt{256}) \div 4]^3 + (6)^2 - (12 \times 8) + 66 + (36 \div 12) = 65$$

A. 6 and 8
B. 66 and 65
C. 4 and 8
D. 66 and 36

Mathematical Operation

121. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$$[(\sqrt{256}) \div 4]^3 + (6)^2 - (12 \times 8) + 66 + (36 \div 12) = 65$$

A. 6 and 8
B. 66 and 65
C. 4 and 8
D. 66 and 36

Mathematical Operation

Answer key																			
1	B	11	A	21	A	31	D	41	D	51	C	61	C	71	D	81	A	91	B
2	C	12	A	22	A	32	D	42	B	52	A	62	A	72	A	82	B	92	C
3	A	13	A	23	C	33	C	43	D	53	D	63	A	73	C	83	D	93	A
4	A	14	B	24	C	34	C	44	C	54	D	64	D	74	A	84	A	94	C
5	B	15	A	25	A	35	D	45	C	55	A	65	A	75	D	85	C	95	C
6	B	16	C	26	A	36	A	46	A	56	B	66	A	76	C	86	B	96	D
7	C	17	B	27	C	37	A	47	B	57	B	67	A	77	D	87	D	97	B
8	D	18	D	28	B	38	B	48	A	58	B	68	A	78	D	88	A	98	D
9	B	19	C	29	A	39	C	49	D	59	C	69	A	79	A	89	B	99	D
10	C	20	A	30	C	40	C	50	B	60	A	70	C	80	D	90	C	100	A