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## MATHEMATICAL OPERATIONS

1) In the given question if + means -, × means /, - means + and / means × then find out the answer of the following question.

Q -  $65 + 34 + 45 + 65 - 95$

- a) 16 b) 19  
c) 18 d) 15

2) If 0 is to be replaced by 1, 1 is replaced by 2..... 7 is replaced by 8 and 8 is replaced by 9 and 9 is replaced by 0. Then answer the following question.

Q -  $71 + 72 + 73 - 84$

- a) 154 b) 156  
c) 178 d) 189

3) If + means -, × means /, - means + and / means × then find out the answer of the following question.

Q -  $(130 \times 13) \times 5 - 10$

- a) 12 b) 14  
c) 17 d) 19

4) If + means -, × means /, - means + and / means × then find out the answer of the following question.

Q -  $41 - 42 - 104 - 105$

- a) 292 b) 232  
c) 262 d) 282

5) If 0 is to be replaced by 1, 1 is replaced by 2..... 7 is replaced by 8 and 8 is replaced by 9 and 9 is replaced by 0. Then answer the following question.

Q -  $1284 + 1289 + 3011$

- a) 8907 b) 8976  
c) 8977 d) 7666

6) Find out the two signs to be interchanged for making the equation correct

Q -  $17 + 1 \times 2/3 - 1 = 36$

- a) / and + b) + and -  
c) - and / d) - and ×

Direction:7

If 0 is written as \*

1 is written as .

2 is written as .\*

3 is written as ..

4 is written as .\*\* answer the following

Q7) - If ... is added to .\*\*, what will be the sum?

- a) \*\*.. b) .\*\*  
c) \*.\* d) .\*\*.

Directions :8

'+' = '×'

'-' = '+'

'×' = '÷'

'÷' = '-'

Then answer the following question based on this information.

Q 8) -  $20 \div 4 + 7 \times 1 - 3 =$

- a) -5 b) 5  
c) 8 d) 4

Give interchanges –

9) - Signs + and / and numbers 2 and 3

- a)  $17/2 - 16 + 3 = 12$  b)  $17/16 - 2 + 3 = 10$   
c)  $17/2 - 16 + 3 = 10$  d)  $17/16 - 2 + 3 = 12$

Directions :10

'+' = '×'

'-' = '+'

'×' = '÷'

'/' = '-'

Then answer the following questions based on this information

Q 10) -  $27 \times 9/3 + 3 - 4 =$

- a) 1  
b) 2  
c) -2  
d) 0

Find out the two signs to be interchanged for making the equation correct

11)  $18 \times 17 - 17/17 + 17 = 18$

- a) + and × b) + and -  
c) + and / d) None of the above





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In the given question if + means -, × means /, - means + and / means × then find out the answer of the following question.

12)  $564 - 36 + 40 - 60$

- a) 628 b) 629  
c) 623 d) 620

13) If '-' denotes addition, '+' denotes subtraction, '×' denotes division and ÷ denotes multiplication, then  $7 - 10 \times 5 \div 6 + 4 = ?$

- a) 3 b) 12  
c) 15 d) 9

14) A means '+', B means '-', C means '×' and D means ÷, then  $18 C 14 A 6 B 16 D 4 = ?$

- a) 254 b) 238  
c) 188 d) 258

15) If A means '×' B means '÷' C means '-' and D means '+', then  $4 D 16 A 5 B 8 C 5 = ?$

- a) 9 b) 16  
c) 13 d) 75

16) If '+' means subtraction, '÷' means addition, '-' means multiplication and '×' means division, then which of the following equation is correct?

- a)  $8 \div 44 - 5 + 25 = 203$   
b)  $9 \div 64 - 2 \times 6 = 54$   
c)  $56 + 12 \times 34 - 12 = 102$   
d)  $112 \times 44 - 12 + 10 = 46$

17) If A = '+', B = '-', C = '×' and D = '÷', then which of the following equations is correct?

- a)  $8 B 6 D A 4 C 3 = 15$   
b)  $9 C 9 B 9 D A 9 = 17$   
c)  $3 A 3 B 3 C 3 A 3 D 3 = 41$   
d)  $8 A 8 B 8 C 8 = -48$

18) If 'T' means (×), 'U' means (-), 'X' means (÷) and W means (+), then what will be the value of the following expression.  $(50 X 2) W (28 T 4)$

- a) 142 b) 158  
c) 137 d) 163

19) If A means '-', B means '+', C means 'x', and D means '÷', then  $32 D 4 B 7 C 2 A 6$

- a) 18 b) 24  
c) 36 d) 16

20) If K denotes 'x', 'B' denotes '÷', 'T' denotes '-' and 'M' denotes '+', then  $40 B 8 T 6 M 3 K 4 = ?$

- a) 19 b) 11  
c) -31 d) 23

21) If S means '-', Q means 'X', R means '÷' and P means '+', then  $1 P 45 R 2 Q 2 S 4 = ?$

- a) 40 b) 42  
c) 36 d) 46

22) If '@' means 'x', 'c' means '+', % means (÷) and '#' means '-', then  $6 \% 12 C 3 @ 8 \# 3 = ?$

- a) 37 b) 35  
c) 39 d) 33

23) If '-' stands for division '+' stands for subtraction '÷' stands for multiplication 'x' stands for addition, then which one of the following equations is correct?

- a)  $70 - 2 + 4 \div 5 \times 6 = 44$   
b)  $70 - 2 + 4 \div 5 \times 6 = 21$   
c)  $70 - 2 + 4 \div 5 \times 6 = 341$   
d)  $70 - 2 + 4 \div 5 \times 6 = 36$

24) If '-' stands for '÷' '+' stands for 'x', '÷' for '-' for 'x' for '+', which one of the following equations is correct?

- a)  $30 - 6 + 5 \times 4 \div 2 = 27$   
b)  $30 + 6 - 5 \div 4 \times 2 = 30$   
c)  $30 \times 6 \div 5 - 4 + 2 = 32$   
d)  $30 \div 6 \times 5 + 4 - 2 = 40$





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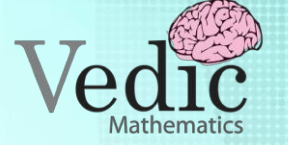
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25) If 'x' means subtraction, '+' means multiplication and '-' means addition, then find the value of following equation.  $12 + (3 \times 1) + 4 - 1 = ?$

- a) 98 b) 75  
c) 85 d) 97

26) If 'x' stands for '+', ÷ stands for '-', '-' stands for 'x' and '+' stands for '÷', then find the value of following equation.  $54 \div 16 - 3 \times 6 + 2 = ?$

- a) 9 b) 12  
c) 8 d) 15

27) If '-' stands for 'addition', '÷' for 'multiplication', 'x' for 'subtraction' and '+' for 'division', then which of the following is correct?

- a)  $25 \times 12 - 14 \div 4 + 6 = 16$   
b)  $25 - 12 + 14 \div 2 \times 4 = 15$   
c)  $25 - 15 + 5 \div 4 \times 16 = 21$   
d)  $25 + 11 - 4 \div 10 \times 6 = 20$

28) If '<' means 'minus', '>' means 'plus', '=' means 'multiplied by' and '#' means 'divided by', then what would be the value of  $27 > 81 \# 9 < 6$ ?

- a) 6 b) 33  
c) 36 d) None of these

29) If & means +, # means -, @ means x and \* means ÷, then what is the value of  $16 \& 4 @ 5 \# 72 * 8$ ?

- a) 25 b) 27  
c) 29 d) 36

30) If + means -, - means x, ÷ means + and x means ÷, then  $15 - 3 + 10 \times 5 \div 5 = ?$

- a) 5 b) 22  
c) 48 d) 52

31) If x means ÷, - means x, ÷ means + and + means -, then  $(3 - 15 \div 19) \times 8 + 6 = ?$

- a) -1 b) 2  
c) 4 d) 8

32) If 'when' means 'x', 'you' means '÷', 'come' means '-' and 'will' means '+', then what will be the value of "8 when 12 will 16 you 2 come 10"?

- a) 45 b) 94  
c) 96 d) 112

33) If '+' stands for 'division', '÷' stands for 'multiplication', 'x' stands for 'subtraction' and '-' stands for 'addition' which one of the following is correct?

- a)  $18 \div 6 \times 7 + 5 - 2 = 22$   
b)  $18 \times 6 + 7 \div 5 - 2 = 16$   
c)  $18 \div 6 - 7 + 5 \times 2 = 20$   
d)  $18 + 6 \div 7 \times 5 - 2 = 18$

34) If 'when' means 'x', 'you' means '÷', 'come' means '-' and 'will' means '+', then what will be the value of "8 when 12 will 16 you 2 come 10"?

- a) 70 b) 80  
c) 94 d) 97

35) If P means x, R means +, T means ÷ and S means -, then  $18 T 3 P 9 S 8 R 6 = ?$

- a) 46 b) 52  
c) 56 d) 64

36) If '+' means 'minus', 'x' means 'divided by', '÷' means 'plus' and '-', means 'multiplied by', then which of the following will be the value of the expression  $252 \times 9 - 5 + 32 \div 92$ ?

- a) 95 b) 168  
c) 192 d) 200

37) If + means x, x means -, ÷ means + and - means ÷, then which of the following gives the result of  $175 - 25 \div 5 + 20 \times 3 + 10$ ?

- a) 77 b) 160  
c) 240 d) 2370







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38) If '+' means 'divide by', '-' means 'added to', 'x' means 'subtracted from' and '÷' means 'multiplied by', then what is the value of  $24 \div 12 - 18 + 9$ ?

- a) 90 b) 190  
c) 290 d) 390

39) If A stands for +, B stands for -, C stands for x, then what is the value of  $(10 \text{ C } 4) \text{ A } (4 \text{ C } 4) \text{ B } 6$ ?

- a) 46 b) 50  
c) 55 d) 60

40) If P denotes ÷, Q denotes x, R denotes + and S denotes -, then what is the value of  $18 \text{ Q } 12 \text{ P } 4 \text{ R } 5 \text{ S } 6$ ?

- a) 53 b) 59  
c) 63 d) 65

41) If x means -, + means ÷, - means x and ÷ means +, then  $15 - 2 \div 900 + 90 \times 100 = ?$

- a) - 60 b) 50  
c) 90 d) 100

42) If + means ÷, ÷ means -, - means x, x means +, then  $12 + 6 \div 3 - 2 \times 8 = ?$

- a) 2 b) 3  
c) 4 d) 6

43) In an imaginary language, the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are substituted by a, b, c, d, e, f, g, h, i and j. And 10 is written as ba.

If '+' stands for 'division', '÷' stands for 'multiplication', 'x' stands for 'subtraction' and '-' stands for 'addition', which one of the following is correct?

- a)  $18 \div 6 \times 7 + 5 - 2 = 22$   
b)  $18 \times 6 + 7 \div 5 - 2 = 16$   
c)  $18 \div 6 - 7 + 5 \times 2 = 20$   
d)  $18 + 6 \div 7 \times 5 - 2 = 18$

44)  $(cd + ef) \times bc$  is equal to

- a) 684 b) 816  
c) 916 d) 1564

45) If L stands for +, M stands for -, N stands for x, P stands for ÷, then  $14 \text{ N } 10 \text{ L } 42 \text{ P } 2 \text{ M } 8 = ?$

- a) 153 b) 216  
c) 248 d) 251

46) If - means ÷, + means x, ÷ means -, x means +, then which of the following equations is correct?

- a)  $52 \div 4 + 5 \times 8 - 2 = 36$   
b)  $43 \times 7 \div 5 + 4 - 8 = 25$   
c)  $36 \times 4 - 12 + 5 \div 3 = 420$   
d)  $36 - 12 \times 6 \div 3 + 4 = 60$

47)  $ba \div bf \times d$  is equal to

- a) df b) cb  
c) be d) d

48) If '-' stands for 'division', '+' for 'multiplication', '÷' for 'subtraction' and 'x' for 'addition' then when one of the following equations is correct?

- a)  $4 \times 5 + 9 - 3 \div 4 = 15$   
b)  $4 \times 5 \times 9 + 3 \div 4 = 11$   
c)  $4 - 5 \div 9 \times 3 - 4 = 17$   
d)  $4 \div 5 + 9 - 3 + 4 = 18$

49)  $dc \times f - (bf - d) \times d$  is equal to

- a) abb b) abe  
c) bce d) bcf

50) In each of the following questions, if the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges : Signs - and ÷ and numbers and 8

- a)  $6 - 8 \div 4 = - 1$   
b)  $8 - 6 \div 4 = 1$   
c)  $4 \div 8 - 2 = 6$   
d)  $4 - 8 \div 6 = 2$

51) In each of the following questions, if the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges : Signs + and × and numbers 4 and 5





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- a)  $5 \times 4 + 20 = 40$   
b)  $5 \times 4 + 20 = 85$   
c)  $5 \times 4 + 20 = 104$   
d)  $5 \times 4 + 20 = 95$

52) In each of the following questions, if the given interchanges are made in signs and numbers, which one of the four equations would be correct? Given interchanges : Signs + and - and numbers 4 and 8

- a)  $4 \div 8 - 12 = 16$   
b)  $4 - 8 + 12 = 0$   
c)  $8 \div 4 - 12 = 24$   
d)  $8 - 4 \div 12 = 8$

53) In each of the following questions, if the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Given interchanges : Signs - and  $\times$  and numbers 3 and 6

- a)  $6 - 3 \times 2 = 9$       b)  $3 - 6 \times 8 = 10$   
c)  $6 \times 3 - 4 = 15$       d)  $3 \times 6 - 4 = 33$

54) Find out the two signs to be interchanged for making following equation correct

$$5 + 3 \times 8 - 12 \div 4 = 3$$

- a) + and -      b) - and /  
c) + and  $\times$       d) + and /

55)  $12:30 :: 14: ?$

- a) 36      b) 28  
c) 35      d) 42

56) If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divide by' then  $30 K 2 Q 3 J 6 T 5 = ?$

- a) 18      b) 28  
c) 31      d) 103

