



ARITHMETIC OPERATIONS

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CONCEPT

B	O	D	M	A	S
Brackets (...)	Orders powers, roots	Division $\div$	Multiplication $\times$	Addition $+$	Subtraction $-$

TYPES

- **Whether the given equations are correct**
- **Based on Symbols equivalent to signs**
- **Interchanging the signs**
- **Balancing the equation**
- **Solve the equation**

If $\times$ stands for $-$, $\div$ stands for $+$, $+$ stands for $\div$ and $-$ stands for $\times$, which one of the following equations is correct?

a) $15 - 5 \div 5 \times 20 + 16 = 6$

(c) $6 \times 2 + 3 \div 12 - 3 = 15$

(b) $8 \div 10 - 3 + 5 \times 6 = 8$

(d) $3 \div 7 - 5 \times 10 + 3 = 10$

If ' $<$ ' means 'minus', ' $>$ ' means 'plus', ' $=$ ' means 'multiplied by' and ' $\$$ ' means 'divided by', then what would be the value of $31 > 81 \$ 9 < 7$?

a) 32

(c) 36

(b) 33

(d) NOT

If $\times$ means $\div$, $-$ means $\times$, $\div$ means $+$ and $+$ means $-$, then
 $(4 - 15 \div 12) \times 8 + 9 = ?$

a) -1

(c) 1

(b) 0

(d) 2

If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divide by', then $26 \text{ K } 2 \text{ Q } 3 \text{ J } 6 \text{ T } 4 = ?$

a) 10

(c) 27

(b) 30

(d) 28

If ‘-’ stands for ‘division’, ‘+’ for ‘multiplication’, ‘÷’ for ‘subtraction’ and ‘×’ for ‘addition’, which one of the following equations is correct?

a) $6 + 20 - 12 \div 7 - 1 = 38$

(c) $6 + 20 - 12 \div 7 \times 1 = 62$

(b) $6 - 20 \div 12 \times 7 + 1 = 57$

(d) $6 \div 20 \times 12 + 7 - 1 = 70$

Which one of the four interchanges in signs and numbers would make the given equation correct?

$$3 + 5 - 2 = 4$$

a) + and −, 2 and 3

(c) + and −, 3 and 5

(b) + and −, 2 and 5

(d) NOT

Given interchanges : Signs + and – and number 4 and 8

a) $4 \div 8 - 12 = 16$

(c) $8 \div 4 - 12 = 24$

(b) $4 - 8 + 12 = 0$

(d) $8 - 4 \div 12 = 8$

If $+$ means $\times$, $\times$ means $-$, $\div$ means $+$ and $-$ means $\div$, then which of the following gives the result of $625 - 25 \div 5 + 20 \times 3 + 10$?

a) 77

(c) 95

(b) 88

(d) 137

If 'K' means 'minus', 'L' means 'divided by', 'M' means 'plus' and 'D' means 'multiplied by', then
 $117 \text{ L } 3 \text{ K } 5 \text{ M } 12 \text{ D } 8 = ?$

a) 150

(c) 130

(b) 125

(d) 145

If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for ' $+$ ' and 'D' stands for ' $-$ ', then the resultant of which of the following will be 652?

a) $109 \text{ B } 6 \text{ A } 16 \text{ D } 2 \text{ C } 6$

(c) $109 \text{ C } 6 \text{ D } 16 \text{ A } 2 \text{ B } 6$

(b) $109 \text{ B } 6 \text{ D } 16 \text{ A } 2 \text{ C } 6$

(d) $109 \text{ A } 6 \text{ D } 16 \text{ B } 2 \text{ C } 6$

If 'T' stands for '+', 'P' stands for ' $\div$ ', 'Q' stands for ' $\times$ ' and 'R' stands for '-', what will come in place of the question mark (?) in the following equation? $24\ T\ 36\ P\ 48\ Q\ 32\ R\ 40\ T\ 53 = ?$

a) 61

(c) 31

(b) 73

(d) 48

If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation? $26 \text{ B } 3 \text{ C } 5 \text{ D } 120 \text{ A } 4 = ?$

a) 53

(c) 51

(b) 57

(d) 55



THANK YOU