MATHEMATICAL OPERATION

MATHEMATICAL OPERATION

Basic math operations include four basic operations:

- Addition (+)
- Subtraction (-)
- Multiplication (* or x) and
- Division (: or /)

These operations are commonly called arithmetic operations. Arithmetic is the oldest and most elementary branch of mathematics.

For every type of Mathematical operations question, you must know only one rule i.e. BODMAS. It is "Brackets, Orders, Division, Multiplication, Addition, and Subtraction. It means you must solve any equation in the BODMAS order. First, open the brackets, then solve the powers or roots, then perform Division followed by multiplication, Addition and subtraction

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

MATHEMATICAL OPERATION

Q 1. 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) 54

(e) None of these

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(a) 6

(b) 33

(c) 36

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MATHEMATICAL OPERATION

Q 2. If ÷ means ×, × means +, + means – and – means ÷, find the value of 16 × 3 + 5 – 2 ÷ 4.

(a) 9

(b) 10

(c) 19

(d) 29

(e) None of these

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(a) 9

(b) 10

(c) 19

(d) 29

(e) None of these

MATHEMATICAL OPERATION

Q 3. If + means -, - means ×, ÷ means + and × means ÷, then 15 – 3 + 10 × 5 ÷ 5 =?

(a) 5

(b) 22

(c) 48

(d) 52

(e) None of these

MATHEMATICAL OPERATION

Q 3. If + means -, - means ×, ÷ means + and × means ÷, then 15 – 3 + 10 × 5 ÷ 5 =?

(a) 5

(b) 22

(c) 48

(d) 52

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MATHEMATICAL OPERATION

Q 4. If ÷ means +, - means ÷, × means – and + means $\times \frac{(36 \times 4) - 8 \times 4)}{4 + 8 \times 2 + 16 \div 1}$ = ?

(a) 0

(b) 8

(c) 12

(d) 16

(e) None of these

MATHEMATICAL OPERATION

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MATHEMATICAL OPERATION

Q 5. If Q means ‘add to’, J means ‘multiply by’, T means ‘subtract from’ and K means ‘divide by’, then30 K 2 Q 3 J 6 T 5 =?

(a) 18

(b) 28

(c) 31

(d) 103

(e) None of these

MATHEMATICAL OPERATION

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MATHEMATICAL OPERATION

Q 6. If ‘when’ means ‘×’, ‘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

(e) None of these

MATHEMATICAL OPERATION

Q 6. If ‘when’ means ‘×’, ‘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

(e) None of these

MATHEMATICAL OPERATION

Q 7. If A stands for +, B stands for -, C stands for ×, then what is the value of (10 C 4) A (4 C 4) B 6?

(a) 60

(b) 56

(c) 50

(d) 46

(e) None of these

MATHEMATICAL OPERATION

Q 7. If A stands for +, B stands for -, C stands for ×, then what is the value of (10 C 4) A (4 C 4) B 6?

(a) 60

(b) 56

(c) 50

(d) 46

(e) None of these

MATHEMATICAL OPERATION

Directions (Questions 11 to 14): 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.

Q 8. (cd + ef) × bc is equal to

(a) 684

(b) 816

(c) 916

(d) 1564

(e) None of these

MATHEMATICAL OPERATION

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(a) 684

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MATHEMATICAL OPERATION

Q 9. baf ÷ bf × d is equal to

(a) df

(b) cb

(c) be

(d) d

(e) None of these

MATHEMATICAL OPERATION

Q 9. baf ÷ bf × d is equal to

(a) df

(b) cb

(c) be

(d) d

(e) None of these

MATHEMATICAL OPERATION

Q 10. dc × f – (bf – d) × d is equal to

(a) abb

(b) abe

(c) bce

(d) bcf

(e) None of these

MATHEMATICAL OPERATION

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(a) abb

(b) abe

(c) bce

(d) bcf

(e) None of these

MATHEMATICAL OPERATION

Q 11. bee + fg – (ca × h/be) is equal to

(a) bhc

(b) bic

(c) bib

(d) bja

(e) None of these

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(a) bhc

(b) bic

(c) bib

(d) bja

(e) None of these

MATHEMATICAL OPERATION

Q 12. If '-' stands for 'division', '+' for 'multiplication', '÷' for 'subtraction' and '×' for 'addition', then which 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) $18 + 6 \div 7 \times 5 - 2 = 18$

(e) None of these

MATHEMATICAL OPERATION

Q 12. If '-' stands for 'division', '+' for 'multiplication', '÷' for 'subtraction' and '×' for 'addition', then which 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) $18 + 6 \div 7 \times 5 - 2 = 18$

(e) None of these

MATHEMATICAL OPERATION

Q 13. If '-' stands for 'division', '+' for 'multiplication', '÷' for 'subtraction' and '×' for 'addition' which one of the following equations is correct?

(a) 6 + 20 – 12 ÷ 7 – 1 = 38

(b) 6 – 20 ÷ 12 × 7 + 1 =57

(c) 6 + 20 – 12 ÷ 7 × 1 =62

(d) 6 ÷ 20 × 12 + 7 – 1 =70

(e) None of these

MATHEMATICAL OPERATION

Q 13. If '-' stands for 'division', '+' for 'multiplication', '÷' for 'subtraction' and '×' for 'addition' which one of the following equations is correct?

(a) 6 + 20 – 12 ÷ 7 – 1 = 38

(b) 6 – 20 ÷ 12 × 7 + 1 =57

(c) 6 + 20 – 12 ÷ 7 × 1 =62

(d) 6 ÷ 20 × 12 + 7 – 1 =70

(e) None of these

MATHEMATICAL OPERATION

Q 14. If → stands for 'addition', ← stands for 'subtraction', ↑ stands for 'division', ↓ stands for 'multiplication', ↗ stands for 'equal to', then which of the following alternatives is correct?

(a) 7← 43 ↑ 6 ↓ 1 ↗ 4

(b) 3 ↓ 6 ↑ 2 → 3 ← 6 ↗ 5

(c) 5 → 7 ← 3 ↑ 2 ↗ 4

(d) 2 ↓ 5 ← 6 → 2 ↗ 6

(e) None of these

MATHEMATICAL OPERATION

Q 14. If → stands for 'addition', ← stands for 'subtraction', ↑ stands for 'division', ↓ stands for 'multiplication', ↗ stands for 'equal to', then which of the following alternatives is correct?

(a) 7← 43 ↑ 6 ↓ 1 ↗ 4

(b) 3 ↓ 6 ↑ 2 → 3 ← 6 ↗ 5

(c) 5 → 7 ← 3 ↑ 2 ↗ 4

(d) 2 ↓ 5 ← 6 → 2 ↗ 6

(e) None of these

MATHEMATICAL OPERATION

Q 15. If '÷' stands for 'greater than', '×' stands for 'addition', '+' stands for 'division', '-' stands for 'equal to', '>' stands for 'multiplication', '=' stands for 'less than' and '<' stands for 'minus', then which of the following alternatives is correct?

(a) 5 > 2 < 1 – 3 × 4 × 1

(b) 5 < 2 × 1 + 3 > 4 × 1

(c) 5 > 2 × 1 – 3 > 4 < 1

(d) 5 + 2 × 1 = 3 + 4 > 1

(e) None of these

MATHEMATICAL OPERATION

Q 15. If '÷' stands for 'greater than', '×' stands for 'addition', '+' stands for 'division', '-' stands for 'equal to', '>' stands for 'multiplication', '=' stands for 'less than' and '<' stands for 'minus', then which of the following alternatives is correct?

(a) $5 > 2 < 1 - 3 \times 4 \times 1$

(b) $5 < 2 \times 1 + 3 > 4 \times 1$

(c) $5 > 2 \times 1 - 3 > 4 < 1$

(d) $5 + 2 \times 1 = 3 + 4 > 1$

(e) None of these

MATHEMATICAL OPERATION

Directions : In each of the following questions, some symbols are represented by letters as shown below:

+	-	×	÷	=	>	<
B	G	E	C	D	A	F

Now, identify the correct expression in each case.

Q 16.

(a) 18 C 3 D 6 B 8 C 4 G 12

(b) 18 A 3 E 6 B 8 G 4 B 12

(c) 18 B 3 G 6 B 8 B 4 D 12

(d) 15 C 5 F 8 C 4 B 6 C 3

(e) None of these

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+	-	×	÷	=	>	<
B	G	E	C	D	A	F

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Q 16.

(a) 18 C 3 D 6 B 8 C 4 G 12

(b) 18 A 3 E 6 B 8 G 4 B 12

(c) 18 B 3 G 6 B 8 B 4 D 12

(d) 15 C 5 F 8 C 4 B 6 C 3

(e) None of these

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+	-	×	÷	=	>	<
B	G	E	C	D	A	F

Now, identify the correct expression in each case.

Q 17.

(a) 15 B 5 G 8 B 4 G 6 F 3

(b) 15 C 15 B 8 F 4 B 6 C 3

c) 15 A 5 E 8 C 4 B 6 E 3

(d) 15 C 5 F 8 C 4 B 6 C 3

(e) None of these

MATHEMATICAL OPERATION

Directions : In each of the following questions, some symbols are represented by letters as shown below:

+	-	×	÷	=	>	<
B	G	E	C	D	A	F

Now, identify the correct expression in each case.

Q 17.

(a) 15 B 5 G 8 B 4 G 6 F 3

(b) 15 C 15 B 8 F 4 B 6 C 3

c) 15 A 5 E 8 C 4 B 6 E 3

(d) 15 C 5 F 8 C 4 B 6 C 3

(e) None of these

THANK YOU