

Mathematical Operations

- **Q1.** In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?
- $12 \times 6 \div 5 + 4 = ?$
- (a) 8
- (b) -18
- (c) 42
- (d) 18
- Q2. If "-" mean "divided by", "+" means "multiplied by", "÷" means "added to", "×" means "subtracted from", then $11 \div 6 - 2 + 5 \times 3 = ?$
- (a) 17
- (b) 21
- (c) 23
- (d) 26
- **Q3.** In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?
- $9 + 3 72 \times 6 \div 3 = ?$
- (a) 46
- (b) 21
- (c)9
- (d) 36
- **Q4.** In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?
- $60 \times 5 + 3 \div 24 6 = ?$
- (a) 18
- (b) 94
- (c)9
- (d) 57
- **Q5.** In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?
- $15 5 + 25 \div 10 = ?$
- (a) 22
- (b) -4
- (c) 17
- (d) 130

Q6. If " α " denotes "subtracted from", " β " denotes "multiplied by", " θ " denotes "added to" and " δ " denotes "divided by", then

- $10 \theta 8 \beta 4 \delta 8 \alpha 9 = ?$
- (a) 7
- (b) 5
- (c)9
- (d) 11

Q7. In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

- $45 \times 5 + 2 20 = ?$
- (a) 17
- (b) 81
- (c)38
- (d) 64

Q8. In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

- $45 \times 5 24 + 3 \div 80 = ?$
- (a) 100
- (b) 52
- (c) 1
- (d) 82

Q9. In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

- $80 + 2 \div 25 + 5 10 = ?$
- (a) 35
- (b) 98
- (c) 36
- (d) 45

Q10. In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

- $72 \times 9 14 + 2 = ?$
- (a) 20
- (b) 86
- (c) 30
- (d) 36

S1. Ans.(b)

Sol. According to the question,

+	_	×	÷
×	+	÷	_

$$\Rightarrow$$
? = 12 × 6 ÷ 5 + 4

$$\Rightarrow$$
? = 12 ÷ 6 – 5 × 4

$$\Rightarrow$$
? = 2 – 20

S2. Ans.(c)

Sol.

_	÷	+	×
÷	+	×	-

$$? = 11 \div 6 - 2 + 5 \times 3$$

$$\Rightarrow$$
? = 11 + 6 ÷ 2 × 5 – 3

$$\Rightarrow$$
? = 11 + 3 × 5 – 3

$$\Rightarrow$$
 ? = 11 + 15 - 3

S3. Ans.(d)

Sol. $9 + 3 - 72 \times 6 \div 3 = ?$

+	1	×	÷
×	+	÷	-

Changing signs according to question,

$$9 \times 3 + 72 \div 6 - 3 = ?$$

$$\Rightarrow$$
 27 + 12 - 3 = ?

$$\Rightarrow$$
 39 – 3 = ?

S4. Ans.(a)

Sol. $60 \times 5 + 3 \div 24 - 6 = ?$

+	_	×	÷
×	+	÷	-

Changing signs according to the question,

$$60 \div 5 \times 3 - 24 + 6 = ?$$

$$\Rightarrow$$
 12 × 3 – 24 + 6 = ?

$$\Rightarrow$$
 36 - 24 + 6 = ?

$$\Rightarrow$$
 42 - 24 = ?

S5. Ans.(d)

Sol. ? =
$$15 - 5 + 25 \div 10$$

$$= 15 + 5 \times 25 - 10$$

S6. Ans.(b)

Sol.

α	β	θ	δ
_	×	+	÷

$10 \theta 8\beta 4\delta 8\alpha 9 = ?$

$$\Rightarrow$$
 10 + 8 × ÷ 8 - 9 = ?

$$\Rightarrow 10 + 8 \times \frac{1}{2} - 9 = ?$$

$$\Rightarrow$$
 10 + 4 - 9 = ?

$$\Rightarrow$$
 14 – 9 = ?

S7. Ans.(c)

Sol. $45 \times 5 + 2 - 20 = ?$

+	-	×	÷
×	+	÷	_

Changing signs according to question,

$$45 \div 5 \times 2 + 20 = ?$$

$$\Rightarrow$$
 9 × 2 + 20 = ?

$$\Rightarrow$$
 18 + 20 = ?

S8. Ans.(c)

Sol.
$$45 \times 5 - 24 + 3 \div 80 = ?$$

301. 43 × 3 = 24 + 3 + 00 = :				
+	-	×	÷	
×	+	÷	_	

Changing signs according to question,

$$45 \div 5 + 24 \times 3 - 80 = ?$$

$$\Rightarrow$$
 9 + 72 - 80 = ?

$$\Rightarrow$$
 81 - 80 = ?

$$? = \boxed{1}$$

S9. Ans.(d)

Sol.
$$80 + 2 \div 25 + 5 - 10 = ?$$

+	-	×	÷
×	+	÷	ı

$$\Rightarrow$$
 80 × 2 – 25 × 5 + 10 = ?

$$\Rightarrow$$
 160 - 125 + 10 = ?

$$\Rightarrow$$
 170 – 125 = ?

S10. Ans.(d)

Sol. $72 \times 9 - 14 + 2 = ?$

+	-	×	÷
×	+	÷	ı

Changing signs according the question,

$$\Rightarrow$$
 72 ÷ 9 + 14 × 2 = ?

$$\Rightarrow$$
 8 + 28 = ?

