Q:1 By interchanging which two signs will the given equation be correct?

$12 \div 63 + 253 \times 23 - 635 = 132$

1. - and ÷
2. × and ÷
3. - and ×
4. + and -

Q:2 Which two signs need to be interchanged to make the following equation correct?

$91 - 13 \div 6 + 4 \times 5 = 21$

1. ÷ and -
2. ÷ and ×
3. + and -
4. + and ×

Q:3 Which set of signs should be put at the place of * in the following?

$175 * 5 * 5 = 6 * 10 * 2$

1. ×, −, ×, +
2. ÷, −, ×, +
3. ÷, −, ×, ÷
4. ×, +, +, ×

Q:4 What will come in the place of the question mark (?) in the following equation, if '+' is interchanged to '-' and '×' is interchanged to '÷'?

$(2400 \times 12 + 6 - 4) \div 2 \times 6 - 8$

1. 76
2. 82
3. 74
4. 86

Q:5 By interchanging the given two signs ÷ and ×, and two numbers 75 and 25 (not digits), which of the following equations will be correct?

I. $50 \div 150 \times 75 + 25 - 12 = 65$
II. $75 \times 5 \div 25 + 14 - 10 = 379$

1. Neither I nor II is correct.
2. Only II is correct.
3. Only I is correct.
4. Both I and II are correct.

Q:6 What will come in the place of '?' in the following equation, if '+' and '× ' are interchanged and also '-' and ' ÷' are interchanged?

$5 \times 24 + 54 - 6 \div 10 = ?$

1. 211
2. 209
3. 206
4. 208

Q:7 Which two numbers (NOT digits) should be interchanged to make the following equation correct?

$52 \div 2 + 13 \times 9 - 4 = 18$

1. 13 and 4
2. 2 and 13
3. 2 and 4
4. 2 and 9

Q:8 What will come in the place of '?' in the following equation, if '+' and '× ' are interchanged and also '-' and ' ÷' are interchanged?

$3 \times 18 + 45 - 15 \div 8 = ?$

1. 48
2. 39
3. 49
4. 46

Q:9 What will come in the place of '?' in the following equation, if '+' and '× ' are interchanged and also '-' and ' ÷' are interchanged?

$2 \times 24 + 32 - 8 \div 10 = ?$

1. 78
2. 89
3. 76
4. 88

Q:10 Which two numbers (NOT digits) should be interchanged to make the following equation correct?

$36 \div 3 + 13 \times 4 - 13 = 35$

1. 13 and 4
2. 3 and 4
3. 3 and 36
4. 13 and 36

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Answer Key

1. (2)	**2.** (1)	**3.** (3)	**4.** (3)	**5.** (2)
6. (1)	**7.** (2)	**8.** (3)	**9.** (4)	**10.** (2)

Answers and Solutions

Q:1 The correct answer is **Option 2** i.e. **× and ÷**
Given equation: **12 ÷ 63 + 253 × 23 − 635 = 132**
Option 1: - and ÷
After interchanging the expression becomes:
= 12 - 63 + 253 × 23 ÷ 635 = 132
= -41.84 is not equal to 132.
Option 2: × and ÷
After interchanging the expression becomes:
= 12 × 63 + 253 ÷ 23 − 635 = 132
= 132 is equal to 132.
As we have found our answer, so there is no need of checking further options.
Hence, the correct answer is **× and ÷**.

Q:2 The correct answer is **Option 1** i.e. **÷ and -**
Given equation: **91 − 13 ÷ 6 + 4 × 5 = 21**
Option 1: ÷ and -
After interchanging the expression becomes:
= 91 ÷ 13 - 6 + 4 × 5 = 21
= 7 - 6 + 4 × 5 = 21
= 7 - 6 + 20 = 21
= 21 is equal to 21.
Hence, the correct answer is **÷ and -**.

Q:3 The correct answer is **Option 3** i.e ÷, −, ×, ÷.
Checking the options:
Option 1: ×, −, ×, +
175 * 5 * 5 = 6 * 10 * 2
175 × 5 −5 = 6 × 10 + 2
875 - 5 = 62
870 is not equal to 62
Option 2: ÷, −, ×, +
175 * 5 * 5 = 6 * 10 * 2
175 ÷ 5 −5 = 6 × 10 + 2
35 - 5 = 62
30 is not equal to 62
Option 3: ÷, −, ×, ÷
175 * 5 * 5 = 6 * 10 * 2

175 ÷ 5 −5 = 6 × 10 ÷ 2
35 - 5 = 6 × 5
30 is equal to 30.
As we have already got our answer there is no need to check further.
Hence, the correct answer is **÷, −, ×, ÷.**

Q:4 The correct option is **Option 3** i.e **74**.
Given equation (2400 × 12 + 6 - 4) ÷ 2 × 6 - 8
'+' is interchanged to '-' and '×' is interchanged to '÷'
A new equation will be
(2400 ÷ 12 - 6 + 4) × 2 ÷ 6 + 8
Using BODMAS
(200 - 2) × 2 ÷ 6 + 8
= 198 × 2 ÷ 6 + 8
= 396 ÷ 6 + 8
= 66 + 8
= 74
Hence, the correct answer is **74.**

Q:5 The correct answer is **Option 2** i.e. **Only II is correct.**
Given equation:
I. 50 ÷ 150 × 75 + 25 − 12 = 65
II. 75 × 5 ÷ 25 + 14 − 10 = 379
Given condition: ÷ and ×, 75 and 25
I. 50 ÷ 150 × 75 + 25 − 12 = 65
On changing numbers and signs
= 50 × 150 ÷ 25 + 75 - 12
= 50 × 6 + 75 - 12
= 375 - 12
= 363
= 363 is not equal to 65.
II. 75 × 5 ÷ 25 + 14 − 10 = 379
On changing numbers and signs
 25 ÷ 5 × 75 + 14 − 10 = 379
= 5 × 75 + 14 − 10
= 375 + 14 - 10
= 375 + 4
= 379
= 379 is equal to 379.
Thus, only equation II is correct.
Hence, **Only II is correct.**

Q:6 The correct answer is **option 1** i.e. **211**.
The given equation is: **5 × 24 + 54 − 6 ÷ 10 =?**
If 'x' and '+' are interchanged and '-' and ' ÷' are

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Asutosh Mukherjee Road, College Para, Hathi More, Siliguri, West Bengal
+91 - 8436586516, +91-8436900456
thedhronas@gmail.com
thedronas.com

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interchanged, the equation becomes:

5 + 24 × 54 ÷ 6 - 10

= 221 - 10

= 211

Hence, **211** is the correct answer.

Q:7 The correct answer is **option 2** i.e. **2 and 13**.

Given equation: **52 ÷ 2 + 13 × 9 −4 = 18**

Checking all the options one by one:

1. 13 and 4

52 ÷ 2 + 4 × 9 −13 = 18

26 + 36 −13 = 18

49 = 18

49 is not equal to 18.

2. 2 and 13

52 ÷ 13 + 2 × 9 −4 = 18

4 + 18 − 4 = 18

18 = 18

18 is equal to 18.

The equation is balanced. No need to check other options.

Hence, **2 and 13** is the correct answer.

Q:8 The correct answer is **option 3** i.e. **49.**

The given equation is: 3 × 18 + 45 − 15 ÷ 8 =?

If 'x' and '+' are interchanged and '-' and ' ÷' are interchanged, the equation becomes:

3 + 18 × 45 ÷ 15 - 8

= 3 + 54 - 8

= **49**

Hence, **49** is the correct answer.

Q:9 The correct answer is **option 4** i.e. **88**.

The given equation is: **2 × 24 + 32 − 8 ÷ 10 =?**

If 'x' and '+' are interchanged and '-' and ' ÷' are interchanged, the equation becomes:

2 + 24 × 32 ÷ 8 - 10

= 2 + 96 - 10

= **88**

Hence, **88** is the correct answer.

Q:10 The correct answer is **option 2** i.e. **3 and 4.**

Given equation: 36 ÷ 3 + 13 × 4−13 = 35

Checking all the options one by one:

1. 13 and 4

36 ÷ 3 + 4 × 13 − 4 = 35

12 + 52 − 4

64 - 4

60

60 is not equal to 35.

2. 3 and 4

36 ÷ 4 + 13 × 3 −13 = 35

9 + 39 − 13 = 35

35 = 35

35 is equal to 35.

The equation is balanced. No need to check other options.

Hence, **3 and 4** is the correct answer.