

## Group Based Number Questions - Top 10 MCQs with Solutions

Group Based Number is an important topic of Logical Reasoning with a great presence in SSC and Bank exams, having a weightage of 2 - 4 questions. To master Group Based Number questions, a solid grasp of the concepts and rigorous practice are essential.

In this blog, we'll comprehensively explore the foundations and logical nuances of Group Based Number. We've included 10 real exam-level questions to give you a preview of the challenges you'll face. Practice questions are categorized into different difficulty levels, ranging from 1 to 10. 1 denotes the least difficult and 10 denotes the most difficult. We have also given an estimated expected time to solve each question, to boost your preparation and speed. Moreover, you can also download Group Based Number questions and answers PDF by clicking on 'Download PDF' button above.



## Group Based Number Questions

**Directions (Q:1 - 5):** Questions given below are based on the following numbers. Read the numbers carefully and answer the questions given below.

465      328      673      897      258

**Q:1** If 1st and 2nd digit of each number interchanged their position, what will be the highest number after multiplying 1st and 3rd digit of each number?

1. 30



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2. 63

3. 40

4. 21

5. 56

[**Difficulty: 4, Estimated Time:** 10 seconds]

Time to test your preparation.

**Q:2** If all the digits of the given numbers are arranged in ascending order within the number, what will be the difference between the lowest and the highest number?

1. 639

2. 569

3. 551

4. 662

5. 554

[**Difficulty: 2, Estimated Time:** 5 seconds]

This question was easy one, wasn't it?

**Q:3** If 2nd and 3rd digit of each number interchanged their position then 1st and 3rd digit of each number interchanged their position, which will be the 3rd lowest?

1. 673

2. 897

3. 258

4. 465

5. 328

[**Difficulty: 4, Estimated Time:** 10 seconds]

You should not spend more time for this question.

**Q:4** If all the numbers are arranged in ascending order, In how many numbers a digit is repeating itself if 1 is added in odd digits of each number and 1 is subtracted from even digits of each number?



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1. 3

2. 4

3. 0

4. 1

5. 2

[*Difficulty: 3, Estimated Time: 5 seconds*]

Come on, time is running, solve faster.

**Q:5** In which of the following sum of all the digits of each number is the multiple of 7?

1. 465

2. 897

3. 328

4. 258

5. None of these

[*Difficulty: 3, Estimated Time: 5 seconds*]

You should solve this question under 5 seconds, easiest one.

**Directions (Q:6 - 10):** Questions given below are based on the following numbers. Read the numbers carefully and answer the questions given below.

575    426    767    379    298

**Q:6** Which will be the 2nd highest product of the 2nd and the 3rd digit after arranging the digits in ascending order within the numbers?

1. 72

2. 63

3. 42

4. 12

5. 35

[*Difficulty: 3, Estimated Time: 5 seconds*]

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Lets move one step ahead with this question.

**Q:7** If all the digits of the given numbers are arranged in descending order within the number and 1 is subtracted from odd digits and 1 is added in even digits, what will be the product of 2nd digit of the lowest number and 3rd digit of the third highest number?

1. 54
2. 56
3. 24
4. 36
5. 35

[**Difficulty: 4, Estimated Time:** 15 seconds]

Hurry up! Time is running.

**Q:8** If 2nd and 3rd digit of each number interchanged their position, What will be the sum of 1st digit of highest number and 3rd digit of lowest number?

1. 14
2. 17
3. 18
4. 15
5. 16

[**Difficulty: 6, Estimated Time:** 15 seconds ]

Read the question carefully.

**Q:9** In how many numbers, the difference between the second and the third digit is equal to the first digit of each number?

1. 3
2. 4
3. 5
4. 1
5. 2

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[**Difficulty: 5, Estimated Time:** 10 seconds]

Okay, come on, crack this one also.

**Q:10** If 2 is added in the 1st digit of even numbers and 3 is subtracted from the 3rd digit of odd numbers, what will be the difference between the highest and the second lowest number?

1. 266
2. 289
3. 344
4. 675
5. 189

[**Difficulty: 3, Estimated Time:** 5 seconds]

Great, you have finished it.

Dive into detailed solutions and discover how to tackle even the trickiest questions. You'll soon find them easy and intriguing, adding depth to your learning experience.

## Answer Key of Group Based Number Questions

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

We've explored various aspects of the same topic together. If you found it easy, that's fantastic! But if you faced challenges, don't worry—detailed solutions are here to clear any doubts and enhance your grasp of the topic.

## Solutions of Group Based Number Questions

**Q:1** The correct answer is **Option 2** i.e. **63**

Here in this question, some numbers are given and we have to make some changes in the digits of these numbers as per the question and find out the highest product.

After interchanging 1st and 2nd digit of each number-

465 – 645

328 – 238



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673 – 763

897 – 987

258 – 528

After multiplying 1st and 3rd digit-

$$645 = 6 \times 5 = 30$$

$$238 = 2 \times 8 = 16$$

$$763 = 7 \times 3 = 21$$

$$987 = 9 \times 7 = 63$$

$$528 = 5 \times 8 = 40$$

The highest number after multiplying 1st and 3rd digit is 63.

Hence, **63** is the correct answer.

**Q:2** The correct answer is **Option 3** i.e. **551**

Here in this question, some numbers are given and we have to arrange all the digits of these numbers in ascending order within the number and find out the difference between the highest and the lowest number.

After arranging all the digits in ascending order within the number -

465 – 456

328 – 238

673 – 367

897 – 789

258 – 258

Highest number = 789

Lowest number = 238

$$\text{Difference} = 789 - 238 = 551$$

So the difference between the highest and the lowest number is 551.

Hence, **551** is the correct answer.

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**Q:3** The correct answer is **Option 4** i.e. **465**

Here in this question, some numbers are given and we have to make some changes in the digits of these numbers as per the question and find out the 3rd lowest number.

After interchanging 2nd and 3rd digit of each number-

465 – 456

328 – 382

673 – 637

897 – 879

258 – 285

After interchanging 1st and 3rd digit-

456 = 654

382 = 283

637 = 736

879 = 978

285 = 582

After arranging these numbers in ascending order-

283, 582, 654, 736, 978

So it is clear that the third lowest number is 654 which was originally 465.

Hence, **465** is the correct answer.

**Q:4** The correct answer is **Option 3** i.e. **0**

Here in this question, some numbers are given and we have to make some changes in the digits of these numbers as per the question and find out In how many numbers a digit is repeating itself.

After arranging all the numbers in ascending order-

258, 328, 465, 673, 897



### Group Based Number Questions - Top 10 MCQs with Solutions

1 is added in odd digits of each number and 1 is subtracted from even digits of each number -

$$258 = 2 - 1 = 1, 5 + 1 = 6, 8 - 1 = 7$$

167 (No digit repeated itself)

$$328 = 3 + 1 = 4, 2 - 1 = 1, 8 - 1 = 7$$

417 (No digit repeated itself)

$$465 = 4 - 1 = 3, 6 - 1 = 5, 5 + 1 = 6$$

356 (No digit repeated itself)

$$673 = 6 - 1 = 5, 7 + 1 = 8, 3 + 1 = 4$$

584 (No digit repeated itself)

$$897 = 8 - 1 = 7, 9 + 1 = 10, 7 + 1 = 8$$

7108 (No digit repeated itself)

No digit is repeating itself in any number.

Hence, **0** is the correct answer.

**Q:5** The correct answer is **Option 5** i.e. **None of these**

Here in this question, some numbers are given and we have to conclude the sum of all digits of each number and find out if there is any number whose digit's sum is multiple of 7.

As per the question,

Sum of all the digits-

$$465 = 4 + 6 + 5 = 15 \text{ (Not a multiple of 7)}$$

$$328 = 3 + 2 + 8 = 13 \text{ (Not a multiple of 7)}$$

$$673 = 6 + 7 + 3 = 16 \text{ (Not a multiple of 7)}$$

$$897 = 8 + 9 + 7 = 24 \text{ (Not a multiple of 7)}$$

$$258 = 2 + 5 + 8 = 15 \text{ (Not a multiple of 7)}$$

No sum is the multiple of 7.

Hence, **None of these** is the correct answer.





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**Q:6** Correct answer is **option 2** i.e **63**.

Here in this question, some numbers are given and we have to arrange all the digits of these numbers in ascending order within the number and find out the the 2nd highest product of the 2nd and the 3rd digit .

As per the question,

After arranging all the digits in ascending order within the number -

$$575 = 7 \times 5 = 35$$

$$426 = 2 \times 6 = 12$$

$$767 = 6 \times 7 = 42$$

$$379 = 7 \times 9 = 63$$

$$298 = 9 \times 8 = 72$$

2nd highest product is 63.

Hence, **63** is the correct answer.

**Q:7** Correct answer is **option 3** i.e **24**.

Here in this question, some numbers are given and we have to make some changes in the digits of these numbers as per the question and find out the product of 2nd digit of the lowest number and 3rd digit of the third highest number.

After arranging all the numbers in descending order-

767, 575, 426, 379, 298

1 is subtracted from odd digits and 1 is added in even digits

**767**

$$7 - 1 = 6, 6 + 1 = 7, 7 - 1 = 6$$

$$= 676$$

**575**

$$5 - 1 = 4, 7 - 1 = 6, 5 - 1 = 4$$

$$= 464$$

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$$4 + 1 = 5, 2 + 1 = 3, 6 + 1 = 7$$

$$= 537$$

**379**

$$3 - 1 = 2, 7 - 1 = 6, 9 - 1 = 8$$

$$= 268$$

**298**

$$2 + 1 = 3, 9 - 1 = 8, 8 + 1 = 9$$

$$= 389$$

$$\text{Lowest number} = 268$$

$$\text{2nd digit of lowest number} = 6$$

$$\text{3rd highest number} = 464$$

$$\text{3rd digit of the 3rd highest number} = 4$$

$$\text{Product of both} = 4 \times 6 = 24$$

24 is the product of 2nd digit of the lowest number and 3rd digit of the third highest number

Hence, **24** is the correct answer.

**Q:8** correct answer is **option 5** i.e **16**.

Here in this question, some numbers are given and we have to make some changes in the given numbers as per the question and find out the sum of 1st digit of highest number and 3rd digit of lowest number.

As per the question,

After interchanging 2nd and 3rd digit of each number-

$$575 = 557$$

$$426 = 462$$

$$767 = 776$$

$$379 = 397$$

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$$298 = 289$$

$$\text{Highest number} = 776$$

$$\text{1st digit of highest number} = 7$$

$$\text{Lowest number} = 289$$

$$\text{3rd digit of lowest number} = 9$$

$$\text{Sum} = 7 + 9 = 16$$

Hence, **16** is the correct answer.

**Q:9** correct answer is **option 4** i.e **1**.

Here in this question, some numbers are given and we have to find out, in how many numbers, the difference between the second and the third digit is equal to the first digit of each number .

As per the question,

Difference between the 2nd and the 3rd digit-

$$575 = 7 - 5 = 2 \quad (5 > 2)$$

$$426 = 6 - 2 = 4 \quad (4 = 4)$$

$$767 = 7 - 6 = 1 \quad (7 > 1)$$

$$379 = 9 - 7 = 2 \quad (3 > 2)$$

$$298 = 9 - 8 = 1 \quad (2 > 1)$$

So here is only one number in which the difference between the 2nd and 3rd digit is equal to the 1st digit of that number.

Hence, **1** is the correct answer.

**Q:10** Correct answer is **option 1** i.e **266**.

Here in this question, some numbers are given and we have to make some changes in the digits of these numbers as per the question and find out the difference between the highest and the second lowest number.

As per the question,

2 is added in the 1st digit of even numbers and 3 is subtracted from the 3rd digit of odd numbers-



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$$575 = 572$$

$$426 = 626$$

$$767 = 764$$

$$379 = 376$$

$$298 = 498$$

Highest number = 764

Second lowest number = 498

$$\text{Difference} = 764 - 498 = 266$$

266 is the difference of the highest and the second lowest number.

Hence, **266** is the correct answer.

Congratulations on completing 10 Group Based Number questions of varying difficulty levels. Your dedication to practice is commendable and will undoubtedly enhance your Logical Reasoning skills. Comment your thoughts below and let us know how was your experience practicing these specially curated questions for you. If you have any doubts, you can ask in the comment section and we'll be right there with answers in no time. Keep up the great work, and you'll be well-prepared to tackle similar challenges in the exams. **KD Live** will be here with with top 10 questions from different topics, on a daily basis. Stay tuned!