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Alpha Numeric Symbol Series Questions for SBI Clerk Pre, IBPS Clerk Pre, RBI Assistant, LIC Assistant and IBPS RRB Exams.

Alpha Numeric Symbol Series Set 31

Directions: Following questions are based on the five three-digit numbers given below:

657 412 568 413 672

1. If 2 is added to the first digit of every even number and 1 is subtracted from the first digit of every odd number, what will be the difference between the 2nd largest and 2nd smallest number?

A. 455 B. 211 C. 559 D. 317 E. None of these
2. If all the digits in each of the numbers are arranged in descending order within the number, what will be the square of the sum of the digits of the largest number?

A. 361 B. 441 C. 324 D. 400 E. None of these
3. What will be the resultant if the middle digit of the second largest number is divided by the first digit of the second smallest number?

A. 1 B. 2 C. 3 D. 2.5 E. None of these
4. If in each number, the first and the second digits are interchanged, which of the following numbers will come in the middle when arranged in ascending order?

A. 534 B. 762 C. 341 D. 567 E. None of these
5. If 1 is subtracted from the last digit of each of the numbers, how many numbers will be divisible by 4?

A. 1 B. 2 C. 3 D. 4 E. None of these

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Correct Answers:

1	2	3	4	5
B	A	E	D	B

Explanations :

1. The given sequence:
657 412 568 413 672

The new sequence:
557 612 768 313 872

The sequence in ascending order:
313 557 612 768 872

The 2nd largest number = 768

The 2nd smallest number = 557

The required difference = $768 - 557 = 211$

Option B is hence the correct answer.

2. The given sequence:
657 412 568 413 672

Clearly, if the digits in each of the numbers are arranged in descending order, the largest unit digit among all will become the largest number after the rearrangement.

If we observe, we find that the largest unit digit we get in the number '568' and if we arrange its digits in descending order the number becomes: 865

Sum of its digits = $8 + 6 + 5 = 19$

Square of 19 = 361

Option A is hence the correct answer.

3. The given sequence:
657 412 568 413 672

The sequence in ascending order:
412 413 568 657 672

2nd largest number = 657

Its middle digit = 5

2nd smallest number = 413

Its first digit = 4

The required resultant = $5/4 = 1.25$

Clearly, option E is the correct answer.

4. The given sequence:
657 412 568 413 672

The new sequence:
567 142 658 143 762

The new sequence in ascending order:
142 143 567 658 762

Clearly, the number 567 comes in the middle.

Option D is hence the correct answer.

5. The given sequence:
657 412 568 413 672

The new sequence:
656 411 567 412 671

As we can see that the last two digits of only two numbers (656 and 412) are divisible by 4 and therefore we can say that there are only two numbers that are divisible by 4.

Option B is hence the correct answer.



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