

IBM Number Series Questions and Answers with Explanation



1. 5, 21, 69, 213, 645, ?

- A. 1935
- B. 1815
- C. 1941
- D. 1290

Answer - C. 1941

Explanation:

5

$$5 \times 3 + 6 = 21$$

$$21 \times 3 + 6 = 69$$

$$69 \times 3 + 6 = 213$$

$$213 \times 3 + 6 = 645$$

$$645 \times 3 + 6 = 1941.$$

Therefore, the next number in the series is 1941.

2. 496, 492, 483, 467, ?

- A. 431
- B. 462
- C. 437
- D. 442

Answer - D. 442

Explanation:

$$496 - 492 = 4 = 2^2$$

$$492 - 483 = 9 = 3^2$$

$$483 - 467 = 16 = 4^2$$

So, the next has to be a difference of $25 = 5^2$

$$467 - 25 = 442$$

Therefore, the next number in the given series is 442.

3. 8(97)6, 4(56)5, 6(75)4, 7(?)8

- A. 98
- B. 89
- C. 88
- D. 97

Answer - B. 89

Explanation:

If we observe, In 8(97)6 we can have $97 - 86 = 11$

4(56)5 we can have $56 - 45 = 11$

IBM Number Series Questions and Answers with Explanation



6(75)4 we can have $75 - 64 = 11$

So, the difference is 11.

$? - 78 = 11$

Hence, $? = 78 + 11 = 89$

4. **2, 1, (1/2), (1/4), ?**

A. (1/8)

B. (2/8)

C. (1/16)

D. (1/3)

Answer - A. (1/8)

Explanation:

This is a simple division series; each number is one-half of the previous number. In other terms to say, the number is divided by 2 successively to get the next result.

2

$2/2 = 1$

$1/2 = 1/2$

$(1/2)/2 = 1/4$

$(1/4)/2 = 1/8$

So, ? is (1/8).

5. **1.5, 2.3, 3.1, ?, 4.7**

A. 3.2

B. 3.4

C. 3.7

D. 3.9

Answer - D. 3.9

Explanation:

However, In this simple addition series, each number increases by 0.8.

6. **544, 509, 474, 439, ?**

A. 420

B. 404

C. 414

D. 445

Answer - B. 404

Explanation: If you observe, Each number is 35 less than the previous number.

IBM Number Series Questions and Answers with Explanation



7. Find the wrong number in the given sequence

31, 2, 41, 3, 52, 4, 61, 5, 71, 6

- A. 41
- B. 61
- C. 52
- D. 31

Answer - C. 52

Explanation:

In this sequence, there is a combination of two given series:

I. 31, 41, 52, 61, 71 and II. 2, 3, 4, 5, 6

Here, the pattern in I is + 10

Therefore, 52 is wrong and should be replaced by the previous number $41 + 10 = 51$.

8. Find the wrong number in the given sequence

10, 5, 19, 12, 39, 26, 73, 54

- A. 19
- B. 39
- C. 5
- D. 26

Answer - B. 39

Explanation:

The sequence is a combination of the following two series:

I. 10, 19, 39, 73, and II. 5, 12, 26, 54

The pattern in I becomes + 9, + 18, + 36

According to the series, 37 is the correct number.

Hence, 39 is the wrong number

9. Find the wrong number in the given series

1, 125, 729, 2177

- A. 1
- B. 125
- C. 729
- D. 2177

Answer - D. 2177

Explanation:

Given 1, 125, 729, 2177

Let's assume $1 = 1^3$, $125 = 5^3$, $729 = 9^3$.

However, the number difference is 40

IBM Number Series Questions and Answers with Explanation



So, the next number would be $133 = 2197$
Therefore, 2177 is wrong.

10. **1023, 987, 915, 807, ?**

- A. 563
- B. 543
- C. 636
- D. 663

Answer - D. 663

Explanation:

$$1023 - 36 = 987$$

$$987 - 72 = 915$$

$$915 - 108 = 807$$

$$807 - 144 = 663$$

11. **460, 92, 36.8, 22.08, ?**

- A. 17.664
- B. 18.44
- C. 16.33
- D. 10.56

Answer - A. 17.664

Explanation:

$$460 \times (1/5) = 92$$

$$92 \times (2/5) = 36.8$$

$$36.8 \times (3/5) = 22.08$$

$$22.08 \times (4/5) = 17.664$$

12. **8, 4, 4, 6, 12, ?**

- A. 39
- B. 27
- C. 24
- D. 30

Answer - D. 30

Explanation:

$$8 \times (1/2) = 4$$

$$4 \times (1) = 4$$

$$4 \times (3/2) = 6$$

$$6 \times (2) = 12$$

$$12 \times (5/2) = 30$$

IBM Number Series Questions and Answers with Explanation



13. 15 , 22, 72, 552 , ?

- A. 8800
- B. 4763
- C. 4500
- D. 4592

Answer – A. 8800

Explanation:

$$15 \times 2 - 8 = 22$$

$$22 \times 4 - 16 = 72$$

$$72 \times 8 - 24 = 552$$

$$552 \times 16 - 32 = 8800$$

14. 69, 77.28, 86.55, 96.936, ?

- A. 102.546
- B. 108.568
- C. 105.675
- D. 119.876

Answer - B. 108.568

Explanation:

$$69 + (12 \times 69 / 100) = 69 + 8.28 = 77.28$$

$$77.28 + (12 \times 77.28 / 100) = 77.28 + 9.27 = 86.55$$

$$86.55 + (12 \times 86.55 / 100) = 86.55 + 10.386 = 96.936$$

$$96.936 + 11.632 = 108.568$$

15. 980, 147, 28, 11, 8.57, ?

- A. 10.765
- B. 8.224
- C. 5.675
- D. 12.653

Answer - B. 8.224

Explanation:

$$980 / 7 + 7 = 147$$

$$147 / 7 + 7 = 28$$

$$28 / 7 + 7 = 11$$

$$11 / 7 + 7 = 8.57$$

$$8.57 / 7 + 7 = 8.224$$

IBM Number Series Questions and Answers with Explanation



16. **10 16.5 43.75 156.625 ?**

- A. 709.3125
- B. 809.3125
- C. 699.3125
- D. 609.3125
- E. None of these

Answer – A. 709.3125

Explanation:

$$10 * 1.5 + 1.5 = 16.5$$

$$16.5 * 2.5 + 2.5 = 43.75$$

$$43.75 * 3.5 + 3.5 = 156.625$$

$$156.625 * 4.5 + 4.5 = 709.3125$$

17. **100 125 225 450 850 ?**

- A. 1375
- B. 1275
- C. 1475
- D. 1575
- E. None of these

Answer – C. 1475

Explanation :

$$100 + 5^2 = 125$$

$$125 + 10^2 = 225$$

$$225 + 15^2 = 450$$

$$450 + 20^2 = 850$$

$$850 + 25^2 = 1475$$

18. **460, 92, 36.8, 22.08, ?**

- A. 17.664
- B. 18.44
- C. 16.33
- D. 10.56

Answer - A. 17.664

Explanation:

$$460 * (1/5) = 92$$

$$92 * (2/5) = 36.8$$

$$36.8 * (3/5) = 22.08$$

$$22.08 * (4/5) = 17.664$$

IBM Number Series Questions and Answers with Explanation



Therefore, the next number in the series is 17.664