Answer List: General

1. Answer: 274

Reason: Under this series, every subsequent number is obtained by adding 29 to the previous number. Therefore, 245+**29** = **274**

1. Answer: 17

Reason: The difference between each number is as follows:

1 + **1** = 2

2 + **3** = 5

5 + **5** = 10

We see that, these form a series 1,3 and 5 with increments of 2. Therefore, the next number that should be added to 10 will be 5+2 =7.

* 10+**7** = **17**

1. Answer: 1875

Reason: Here, each number is obtained by multiplying successive number by 5

3 x **5** = 15

15 x **5** = 75

75 x **5** = 375

So, the next number is 375 x 5 =**1875**

1. Answer: 8

Reason: Here, the difference between the numbers is 20,25,30… i.e values with gap of 5. Therefore, the next number that should be deducted from 43 is 35. Thus, the next number is: 43-35=**8**

5

5

5

**-35**

-30

-25

-20

118, 98, 73, 43, **8**

1. Answer: 60

Reason: In the above question, each number is obtained as follows:

12 x **2** = 24

12 x **3** = 36

12 x **4** = 48

Next number is 12 x 5 = **60**

1. Answer: 384

Reason: The numbers in the series are multiplied by multiples of 2 i.e 2,4,6…

Next number will be 48 x 8 = 384

1. Answer: 180

Reason: Here, the difference between the numbers is 11,33,55… which are multiples of 11.

11 x **1** =11

2

11 x **3** =33

2

11 x **5** =55

2

11 x **7** =**77**

**x 7**

x 5

x 3

**77**

55

33

11

4, 15, 48, 103, **180**

1. Answer: 64

Reason: This is a series of cube numbers i.e 13, 23, 33, ?, 53,…

So, missing number is 43 i.e **64**

1. Answer: 222 i.e (63+6)

Reason: The series can be written in the form

93 – 9, 83 + 8, 73 – 7, ?, 53 – 5, 43 + 4

So clearly, we see that the missing number expression is **63 + 6** = 216 + 6 = **222**

1. Answer: 56

Reason:

**25**

16

9

4

1

1, 2, 6, 15, 31, **56**

Cubes of 1,2,3,4,5

1. Answer: 54,84

Reason: Under this series, every subsequent number is obtained by adding 15 to the previous number. Therefore, 39+**15**=**54** and 69+**15**=**84**

1. Answer: 135

Reason: The difference between each number is as follows:

105 + **3** = 108

108 + **6** = 114

114 + **9** = 123

We see that, these form a series 3, 6, 9, … with increments of 3. Therefore, the next number that should be added to 123 will be 9+3 =12.

* 123+**12** =**135**

1. Answer: 54

Reason: In the above question, each number is obtained as follows:

18 x **2** = 36

**18 x 3 = 54**

18 x **4** = 72

18 x **5** = 90

1. Answer: 1296

Reason: Here, each number is obtained by multiplying successive number by 6

6 x **6** = 36

36 x **6** = 216

**216 x 6 = 1296**

1296 x **6** = 7776

1. Answer: 144

Reason: There are multiple approaches to this answer.

(a). The difference between the numbers forms a series as: 20, 28, 36, .. with increments of 8.

The next number will therefore be: **100 + (36 + 8) = 144**

(b). The numbers are a series of squares of evens i.e 42, 62, 82, …So the next number to be squared will be 12, i.e **122 is 144**.

1. Answer: 21

Reason: Here, the following pattern is observed.

96 – **27** = 69

69 – **24** = 45

45 – **18** = 27

27 – **09** = 18

**18 + 03 = 21**

9

**12**

6

3

-9

-18

-24

-27

**+3**

96, 69, 45, 27, 18, **21**

1. Answer: 330

Reason: In this number series, all are multiples of 6, but follow a certain pattern.

6 x **5** = 30

+3

+7

6 x **12** = 72

+4

+10

6 x **22** = 132

+14

6 x **36** = 216

+5

+19

**6 x 55 = 330**

1. Answer: 83

Reason: Here, the difference between the numbers form a series as follows:15, 25, … i.e

23 – 8 = 15

48 – 23 =25

Therefore, next number would be **48 + 35 = 83**

And **83** + 45 = 128 as well.

1. Answer: 448

Reason: If observed carefully, the series follow the pattern x2, x4, x2, … i.e

7 x **2** = 14

14 x **4** = 56

56 x **2** = 112

Therefore, **112 x 4 = 448**

1. Answer: 7.5

Reason: If the number of steps followed by the monkey can be put into a series, it would look like this.

-2

-2

-2

-2

-2

+3

-2

+3

+3

+3

+3

+3

+3

-2

3, 1, 4, 2, 5, 3, 6, 4, 7,5, 8, 6, 9,7, 10

Itr. 7.5

Itr. 7

Itr. 6

Itr. 5

Itr. 4

Itr. 3

Itr. 2

Itr. 1

Therefore, the monkey takes 7.5 iterations to reach the 10th step.

1. Answer: 34

Reason: This is a mixed series, which can be split as:

2

2

10, 24, 12, 29, 14, **34**

5

5

1. Answer: 59

Reason: This is a mixed series, which can be split as:

1

1

54, 67, 55, 63, 56, **59**

-4

-4

1. Answer: 64

Reason: This is a mixed series, which can be split as:

Squares of 1,2,3,…

1, 1, 4, 8, 9,27,16, **64**

Cubes of 1,2,3,…

1. Answer: 208

Reason: This is a miscellaneous series, meaning that the numbers have more than 1 operation.

(6 x 1) + 1 = 7

(7 x 2) + 2 = 16

(16 x 3) + 3 = 51

Therefore, **(51 x 4) + 4 = 208**

1. Answer: 248

Reason: In this series, each number is multiplied by a value and subtracted by the same value.

(13 x 1) – 1 = 12

(12 x 2) – 2 = 22

(22 x 3) – 3 = 63

**(63 x 4) – 4 = 248**

1. Answer: 926

Reason: In this series, each number is multiplied by a value and subtracted by 1.

(6 x 1) + 1 = 7

(7 x 2) + 1 = 15

(15 x 3) + 1 = 46

(46 x 4) + 1 = 185

**(185 x 5) + 1 = 926**

1. Answer: 205

Reason: The above series is called Fibonacci Series, in which the present number is added to the previous number to get the next number.

Likewise,

15 + 32 = 47

32 + 47 = 79

**79 + 126 = 205**

1. Answer: 62

Reason: In this series, the difference between the current and the next number is the sum of the digits of the current number.

Likewise,

2 + 3 = 5

2 + 8 = 10

3 + 8 = 11

4 + 9 = 13

* **49 + 13 = 62**

1. Answer: 57

Reason: In this series, the difference between the current and the next number is the sum of the digits of the current number.

Likewise,

2 + 4 = 6

3 + 0 = 3

3 + 3 = 6

3 + 9 = 12

5 + 1 = 6

* **51 + 6 =57**

1. Answer:

Reason: This is a simple series in which a constant fraction of is added to each number to get the next one. Therefore**, + =**

1. Answer: 140

Reason: In this series, the difference between the current and the next number is the product of the digits of the current number.

4 x 1 = 4

4 x 5 = 20

6 x 5 = 30

9 x 5 = 45

* **95 + 45 = 140**

1. Answer: 39

Reason: In this series, prime numbers are being added to each number.

Series of Prime number

**11**

7

5

3

2

11, 13, 16, 21, 28, **39**

1. Answer: 23

Reason: As we can see, the difference between the numbers are even. However, the occurrence of number 23 in the series leads to a deviation from this pattern, which can be corrected by replacing 23 with 24.

9

5

4

2

12, 14, 18, 23, 32

1. Answer: 100

Reason: This is a Fibonacci series. Each number is obtained by adding the previous two numbers.

15 + 23 = 38

23 + 38 = 61

38 + 61 = 99 and not 100

1. Answer: 25

Reason: This is a mixed series which follows the pattern as below.

-5

-5

46,43,41,33,36, 25

-8

-10