Q:1 What will come in place of the question mark(?) in the following number series?
1, 2, 6, 24, 120, ?, 5040
1. 560
2. 640
3. 480
4. 830
5. 720

Q:2 What will come in place of the question mark(?) in the following number series?
3, 27, 75, 147, ?, 363
1. 243
2. 227
3. 255
4. 237
5. 234

Q:3 What will come in place of the question mark(?) in the following number series?
6, 9, 15, 21, ?, 39
1. 27
2. 32
3. 33
4. 29
5. 31

Q:4 What will come in place of the question mark(?) in the following number series?
154, 146, 122, ?, -166
1. -16
2. 46
3. -8
4. 50
5. 34

Q:5 What will come in place of the question mark(?) in the following number series?
1, 6, 20, ?, 144
1. 62
2. 56
3. 54
4. 64
5. 49

Q:6 What will come in place of the question mark(?) in the following number series?
11, 25, 51, 89, 139, 201, ?
1. 240
2. 315
3. 230
4. 275
5. 400

Q:7 What value should come in the place of question mark (?) in the following number series?
78, 56, 84, 62, ?, 68
1. 90
2. 98
3. 94
4. 92
5. 96

Q:8 What will come in place of the question mark(?) in the following number series?
5126, 5127, 1709, 1710, 342, 343, ?, 50
1. 100
2. 49
3. 82
4. 105
5. 40

Q:9 What will come in place of the question mark(?) in the following number series?
125, 1000, 992, 5952, 5946, 23784, ?
1. 23000
2. 22925
3. 23780
4. 24944
5. 16650

Q:10 What will come in place of the question mark(?) in the following number series?
100, 200, 100, 100, 300, 25, ?
1. 70
2. 315
3. 1200
4. 1500
5. 400

Answer Key

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

Answers and Solutions

Q:1 The correct answer is **option 5** i.e. **720.**
If the series is closely observed, all values are factorial of consecutive integers from 1 to 7
Hence, the missing value is 6! which is equal to 720.

Q:2 The correct answer is **option 1** i.e. **243.**
The series follows the following pattern:
$\Rightarrow 3 \times 1^2 = 3$
$\Rightarrow 3 \times 3^2 = 27$
$\Rightarrow 3 \times 5^2 = 75$
$\Rightarrow 3 \times 7^2 = 147$
$\Rightarrow 3 \times 9^2 = 243$
$\Rightarrow 3 \times 11^2 = 363$
Hence, the missing term is 243.

Q:3 The correct answer is **option 3** i.e. **33.**
If the series is divided by 3, the series becomes:
$\Rightarrow$ 2, 3, 5, 7, ?, 13
All these are consecutive prime numbers,
Hence, the missing term in the above series = 11
Multiply it by 3, i.e. 11 × 3 = 33 is the missing value in the original series.

Q:4 The correct answer is **option 4** i.e. **50.**
The series follows the following pattern:
1st term = 154
2nd term = 146
Difference between 1st and 2nd term = 8
3rd term = 122
Difference between 2nd and 3rd term = 24 or (8 × 3)
The difference is being multiplied by 3 Hence, 4th term = 122 - (24 × 3) = 50
To verify, the difference between the 3rd and 4th term = 122 - 50 = 72
Difference between 4th and 5th term = 50 - (-166) = 216 or (72 × 3)
Hence, 50 is the missing term.

Q:5 The correct answer is **option 2** i.e. **56.**

The series follows the following pattern:
1 × 2 - 1 = 1
2 × 4 - 2 = 6
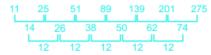3 × 8 - 4 = 20
4 × 16 - 8 = 56
5 × 32 - 16 = 144
Hence, the missing term is 56.

Q:6 The correct answer is **Option 4** i.e. **275**
We have to find the missing term with the help of series pattern
So,
11, 25, 51, 89, 139, 201, ?
Now

11   25   51   89   139   201   275
   14   26   38   50   62   74
      12   12   12   12   12

Hence, ? = 275

Q:7 The correct answer is **Option 1** i.e. **90**
We have to find missing term with the help of series pattern
Here we have two alternate series
1st series
78 + 6 = 84
84 + 6 = 90
And 2nd series
56 + 6 = 62
62 + 6 = 68
So, ? = 90

Q:8 The correct answer is **Option 2** i.e. **49**
We have to find the missing term with the help of series pattern
So
5126, 5127, 1709, 1710, 342, 343, ?, 50
Now, the series follows the following pattern
5126 + 1 = 5127
5127 ÷ 3 = 1709
1709 + 1 = 1710
1710 ÷ 5 = 342
342 + 1 = 343
343 ÷ 7 = 49
49 + 1 = 50
Hence, ? = 49

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Q:9 The correct answer is **Option 3** i.e. **23780.**
We have to find the missing term with the help of series pattern
So, 125, 1000, 992, 5952, 5946, 23784, ?
Now, the series follows the following pattern
$125 \times 8 = 1000$
$1000 - 8 = 992$
$992 \times 6 = 5952$
$5952 - 6 = 5946$
$5946 \times 4 = 23784$
$23784 - 4 = 23780$
Hence, ? = 23780

Q:10 The correct answer is **Option 4** i.e. **1500**
We have to find the missing term with the help of series pattern
So, 100, 200, 100, 100, 300, 25, ?
Now, Here have two alternate series
The series follows the following pattern
1st series × Odd Number
$100 \times 1 = 100$
$100 \times 3 = 300$
$300 \times 5 = 1500$
Here, 2nd series ÷ Even Number
$200 \div 2 = 100$
$100 \div 4 = 25$
Hence, ? = 1500