**Question Bank**

**Playing With Numbers**

Level - 1

1) The values of A and B in the given addition respectively are \_\_\_.

 2 3 A

+ A 3 B

−−−−−−−

 6 B 1

−−−−−−−

A) 4, 7

B) 7, 4

C) 5, 6

D) 6, 5

2) If a number is divisible by 9, it is also divisible by which number?

A) 3

B) 6

C) 2

D) 4

3) Which of the following statements is true?

A) A number is divisible by 4 if it is divisible by 2.

B) A number is divisible by 9 if it is divisible by 3.

C) A number is divisible by 11 if the number formed by its last two digits is divisible by 11.

D) A number is divisible by 8 if the number formed by its last three digits is divisible by 8.

4) Identify the even prime number.

A) 132

B) 102

C) 284

D) 2

5) Which of the following is true?

A) 7 is the least composite number.

B) 53 is the only prime number between 50 and 60.

C) 97 is the only prime number between 90 and 100.

D) 1 is the least prime number.

**Level - 2**

1) The greatest value that must be given to x so that the number 7713x8 is divisible by 4 is\_\_\_\_\_\_.

A) 1

B) 6

C) 8

D) 7

[2) Given that the number 67y19 is divisible by 9, where y is a single digit, what is the least possible value of y?](https://www.studyadda.com/question-bank/8th-class/mathematics/playing-with-numbers/playing-with-numbers/3236)

A) 3

B) 9

C) 7

D) 4

3) Find the value of A, B and C respectively.

(i) A83

 × C9

−−−−−−−

 A04A

 + 15BB0

 −−−−−−−−−−−

 CCA0A

(ii) 43A4

 × 3A

−−−−−−−−−

 B7C76

 +BC0C20

 −−−−−−−−−−−−−

B47696

−−−−−−−−−−−−−

A) (i) 2, 6, 7 (ii) 9, 5, 2

B) (i) 6, 7, 2 (ii) 4, 3, 1

C) (i) 7, 5, 2 (ii) 9, 2, 5

D) (i) 7, 6, 2 (ii) 4, 1, 2

4) Which number is divisible by 6?

A) 213

B) 468

C) 621

D) 573

5) How many prime numbers are there between 100 and 200?

A) 25

B) 19

C) 21

D) 20

**Level - 3**

1) If 1 A

× A

−−−−

 B 6

−−−−

where A and B are single digit numbers, such that B - A = 3, then the values of A and B respectively are \_\_\_\_\_.

A) 4, 5

B) 9, 6

C) 5, 4

D) 6, 9

2) A 3 - digit number 'cba' is divisible by 3 if\_\_\_\_.

A) a + 2b + c is divisible by 3

B) 2a + b + c is divisible by 3

C) a + b + 2c is divisible by 3

D) a + b + c is divisible by 3

3) Match the following.

|  |  |
| --- | --- |
| Column - I | Column - II |
| (P) If 213x27 is divisible by 9, then x= | (i) 2 |
| (Q) If 2415xis divisible by 6, then x= | (ii) 8 |
| (R) If 22135x is divisible by 4 and 3, then x= | (iii) 3 |
| (S) If 7251x93 is divisible by 11, then x= | (iv) 6 |

A) (P)→(iii); (Q)→(ii); (R)→(iv); (S)→(i)

B) (P)→(ii); (Q)→(iv); (R)→(i); (S)→(iii)

C) (P)→(iii); (Q)→(iv): (R)→(i); (S)→(ii)

D) (P)→(ii); (Q)→(iii); (R)→(i); (S)→(iv)

4) Which of the given numbers is composite?

A) 137

B) 147

C) 157

D) 167

5) A prime number is greater than 30 and lesser than 60. What is the greatest possible such number?

A) 37

B) 53

C) 43

D) 59