

Number System

1. A number when divided by 65 leaves 91 as remainder, what would be the remainder, when the same number is divided by 13.
2. When a number is divided by 56, the remainder is 29. If the number is divided by 8, then find the remainder.
3. A number, when divided by 56, leaves the remainder 3, when divided by 7, what will be the remainder.
4. What is the total of all the even numbers from 1 to 300.
5. What is the total of all the even number from 1 to 281.
6. What is the total of all odd numbers from 1 to 200.
7. What is total of all odd numbers from 1 to 81.
8. What is the number in the unit place in $(429)^{58}$.
9. What is number in the unit place in $(429)^{59}$.
10. What is the number in the unit place in $(123)^{36}$, $(123)^{37}$, $(123)^{38}$ and $(123)^{39}$.
11. What is the number in the unit place in $(927)^{49}$.
12. What is number in the unit place in $(125)^{21}$.
13. Find the number in unit place in $(78)^{40}$, $(78)^{42}$ and $(78)^{43}$.
14. What is the number in the unit place when 871, 235, 947 and 543 are multiplied together.
15. A number when divided by 928 gives a remainder 63, what remainder will be obtained by dividing the same number by 29.
16. A number when divided by 651 given remainder 62, what remainder will be obtained by dividing the same number by 31.

17. How many prime numbers exist in $6^7 \times 35^3 \times 11^{10}$.
18. Find the remainder when $5^{13} + 1$ is divisible by 4.
19. Find the number of zero's at the end of the product
- (a) $15 \times 18 \times 24 \times 16 \times 40$
- (b) $5 \times 10 \times 15 \times 20 \times 25 \times 30$
20. How many numbers upto 100 is divisible by 7 ?
21. How many numbers upto 300 are divisible by 3 and 4 together ?
22. How many numbers between 100 and 400 are divisible by 13.
23. Find the total number of divisors of 45.
24. Find the total number of divisors of 3780, excluding unity.
25. How many numbers between 200 and 400 are divisible by 3, 4 and 5 together ?

ANSWERS

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|-------------|----------------|-----------|----------|
| 1) 0 | 2) 5 | 3) 3 | 4) 22650 |
| 5) 19740 | 6) 10000 | 7) 1681 | 8) 1 |
| 9) 9 | 10) 1, 3, 9, 7 | 11) 7 | 12) 5 |
| 13) 6, 4, 2 | 14) 5 | 15) 5 | 16) 0 |
| 17) 30 | 18) 2 | 19) 2 ; 4 | 20) 14 |
| 21) 25 | 22) 23 | 23) 6 | 24) 48 |
| 25) 3 | | | |