



# NUMBER THEORY

For IOQM

## STANDARD ALGEBRAIC IDENTITIES

### DIVISIBILITY

In this section, whenever a word 'number' is used we would mean 'a natural number' unless specified otherwise. Lets consider two number 'a' and 'b' such that  $b \geq a$ . We say that 'b' is divisible by 'a', if 'b' is an integral multiple of 'a' i.e., 'a' is a factor of 'b'.

So, 15 is a multiple of 5 and hence 15 is divisible by 5. This is denoted by  $5|15$ . In general, if 'b' is divisible by 'a', then we denote it by  $a|b$

Tests of Divisibility:

Divisibility by 2

a	b
---	---

b must be divisible by 2 i.e., remainder = 0.

If the units digit of a number is 0, 2, 4, 6 or 8, then the number is divisible by 2.

For example, 2, 4, 6, 8, 10, 12, .....

Divisibility by 3 and 9

a	b
---	---

$a + b$  must be divisible by 3 and 9 respectively i.e., remainder = 0.

If the sum of digits of a number is divisible by 3, then the number is divisible by 3)

For example, 6, 15, 81, 144, 282, ..... etc.

Also, if the sum of the digits of a number is divisible by 9, then the number itself is divisible by 9.

For example, 27, 729, 72333 etc.

Divisibility by 4

a	c	b
---	---	---

$cb$  must be divisible by 4 i.e., remainder = 0.

A number is divisible by 4 if the number formed by its last two digits (i.e., units and tens) is divisible by 4.

For example, 24, 84, 124, 1284, 156284 etc.

Divisibility by 5

a	b
---	---

b either be 0 or 5 i.e., b must be divisible by 5 i.e., remainder = 0.

If the unit's digit of a number is 0 or 5, then the number is divisible by 5.

For example, 10, 15, 100, 125, 1025 etc.

Divisibility by 6

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**JG Myers**



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## **Table of Contents Studies In Number Theory**

1. Understanding the eBook Studies In Number Theory
  - The Rise of Digital Reading Studies In Number Theory
  - Advantages of eBooks Over Traditional Books
2. Identifying Studies In Number Theory
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Studies In Number Theory
  - User-Friendly Interface
4. Exploring eBook Recommendations from Studies In Number Theory
  - Personalized Recommendations
  - Studies In Number Theory User Reviews and Ratings
  - Studies In Number Theory and Bestseller Lists
5. Accessing Studies In Number Theory Free and Paid eBooks
  - Studies In Number Theory Public Domain eBooks
  - Studies In Number Theory eBook Subscription Services
  - Studies In Number Theory Budget-Friendly Options
6. Navigating Studies In Number Theory eBook Formats
  - ePub, PDF, MOBI, and More
  - Studies In Number Theory Compatibility with Devices
  - Studies In Number Theory Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Studies In Number Theory
  - Highlighting and Note-Taking Studies In Number Theory
  - Interactive Elements Studies In Number Theory
8. Staying Engaged with Studies In Number Theory

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Studies In Number Theory
9. Balancing eBooks and Physical Books Studies In Number Theory
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Studies In Number Theory
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Studies In Number Theory
    - Setting Reading Goals Studies In Number Theory
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Studies In Number Theory
    - Fact-Checking eBook Content of Studies In Number Theory
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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