



# 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

# Topics In Number Theory Algebra And Geometry

**SB Merriam**



## **Topics In Number Theory Algebra And Geometry:**

## Reviewing **Topics In Number Theory Algebra And Geometry**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Topics In Number Theory Algebra And Geometry**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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