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Changing your Tomorrow

SESSION : 17

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 8

CHAPTER NAME : FACTORS AND MULTIPLES

SUB-TOPIC : TEST OF DIVISIBILITY: RULES AND EXAMPLES

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Let's revise:

A. Numbers which are multiples of 2 are called even numbers.

Examples: 2, 4, 6, 8, 10, 12, 14, 16… etc.

B. Numbers which are not the multiples of 2 are odd numbers.

Examples: 1, 3, 5, 7, 9, 11, 13, 15… etc.

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TEST OF DIVISIBILTY: 2

If its one's digit is even or 0, then the number is divisible by 2

Examples: 0, 8, 36, 64, 1264… etc.

TEST OF DIVISIBILTY: 5

If its last [one's] digit is 0 or 5, then the number is divisible by 5.

Examples: 15, 55, 90, 345, 7910

TEST OF DIVISIBILTY: 10

If the one's digit is 0, then the number is divisible by 10.

Examples: 20, 250, 500, 12540… etc.

TEST OF DIVISIBILTY: 3

If the sum of its digits is divisible by 3, then the number is divisible by 3.

Examples: 6, 12,21,18,111, 2163… etc.

TEST OF DIVISIBILTY: 9

If the sum of its digits is divisible by 9 then, the number is divisible by 9.

Example: 18, 45,72, 144, 3267… etc.

TEST OF DIVISIBILTY: 4

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If the number formed by its last two digits are divisible by 4

or

If the last two digits are both 0, then the numbers is divisible by 4.

Examples: 124, 416, 5440, 9600

TEST OF DIVISIBILTY: 8

If the number formed by its last three digits are divisible by 8

or

If the last three digits are 0, then the numbers is divisible by 8.

Examples: 124, 416, 5440, 9600

WRAP UP

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A number is Divisible by	If the last digit is
2	0, 2, 4, 6, 8
5	0, 5
10	0

A number is Divisible by	If the sum of its digit is divisible by
3	3
9	9

A number is Divisible by	If it is divisible by
6	2 and 3
12	3 and 4
15	3 and 5

TEST OF DIVISIBILTY: 6

If the number is divisible by both 2 and 3 , then it is divisible by 6.

Example: 72, 216, 3018, 21324… etc.

TEST OF DIVISIBILTY: 12

If it is divisible by both 3 and 4, then the number is divisible by 12

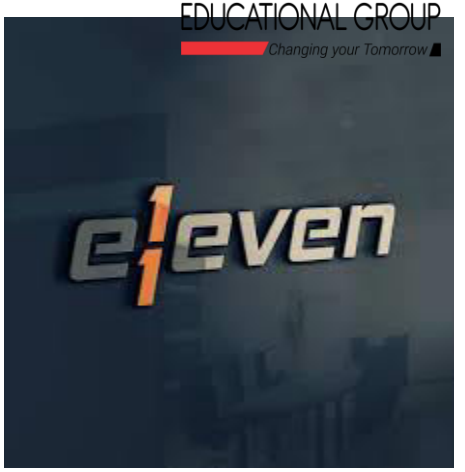
Example: 24, 60, 2700, 56100… etc.

TEST OF DIVISIBILTY: 15

If it is divisible by both 3 and 5, then the number is divisible by 15.

Example: 45, 90,450, 2700… etc.

TEST OF DIVISIBILTY: 11



If the difference between the sum of the digits in the odd places and the sum of the digits in the even places is either 0 or 11, then the number is divisible by 11

Examples: 308, 1331, 61809, 6556… etc.

Number	Sum of the digits (at odd places) From the right	Sum of the digits (at even places) From the right	Difference
308	8 + 3 = 11	0	11 - 0 = 11
1331	1 + 3 = 4	3 + 1 = 4	4 - 4 = 0
61809	9 + 8 + 6 = 23	0 + 1 = 1	23 - 1 = 22
6556	6 + 5 = 11	6 + 5 = 11	11 – 11 = 0

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LEARNING OUTCOME :

Students are able to check the divisibility of a number by using the rules of tests of divisibility.

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THANKING YOU

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