

SESSION	: 2
CLASS	: IV
SUBJECT	: MATHEMATICS
CHAPTER NUMBER	: 9
CHAPTER NAME	: TESTS OF DIVISIBILITY
SUBTOPIC	: TESTS OF DIVISIBILITY,
	EXPLANATION AND RULES

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE

 Enable the students to understand about the divisibility rules of different numbers.

















A number is divisible by **4** if the number formed by its last two digit is divisible by **4** or if the last two digits are both zeros, e.g. **116**, **300**, **2148**, **6100**, etc.







A number is divisible by **3** if the sum of its digit is divisible by **3**.

e.g. NUMBER		Sum of The Digit
18	=	1 + 8 = <mark>9</mark> (divisible by 3)
243	=	2 + 4 + 3 = <mark>9</mark> (divisible by 3)
2463	=	2 + 4 + 6 + 3 = 15 (divisible by 3)
6472	=	6 + 4 + 7 + 2 = 19 (not divisible by 3)
		So, 6472 is not divisible by 3 .











Divisibility by 6:

its last digit (one's digit) must be an even number and the sum of its digit must be divisible by 3. (e.g. 84, 264, 2142, etc).

















A number is divisible by **9** if the sum of its digit is divisible by **9**. (Just like **3**)

e.g. NUMBER		Sum of The Digit
4158	=	4 + 1 + 5 + 8 = 18 (divisible by 9)
9846	=	9 + 8 + 4 + 6 = 27 (divisible by 9)
8464	=	8 + 4 + 6 + 4 = 22 (not divisible by 9)



















EXAMPLE: Check the divisibility of the following numbers.

a) 7122 by 3

Answer:

7122 : To check its divisibility, we will add all the together.

7 + 1 + 2 + 2 = **12**

12 is divisible by **3**.

So, the number 7122 is divisible by 3.







EXAMPLE: Check the divisibility of the following numbers.

b) 51,251 by 9

Answer:

51,251: To check its divisibility, we will add all the together.

5 + 1 + 2 + 5 + 1 = **14**

14 is not divisible by 9.

So, the number 51,251 is not divisible by 9.









EXAMPLE: Check the divisibility of the following numbers.

c) 79,684 by 4

Answer:

79,684 : As per divisible by 4 rule if the number formed by its last two digit is divisible by **4**.

84 is divisible by 4.



As **4** × **21** = **84**

So, the number 79,684 is divisible by 4.





EXAMPLE: Check the divisibility of the following numbers.

d) 2,712 by 6

Answer:

2,712 : To check its divisibility, we will first look at the last digit and then add all the digits together. Since the last digit is even, it is divisible by 2.

2 + 7 + 1 + 2 = **12**

12 is divisible by **3**.



Since, 2,712 is divisible both by 2 and 3, therefore the number 2,712 is divisible by 6.





LEARNING OUTCOME:

Students are able to understand the divisibility rules of different numbers.



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