8 Divisibility

YHFP2H

Let's recall.

- Write the divisibility tests for 2, 5 and 10.
- Read the numbers given below. Which of these numbers are divisible by 2, by 5 or by 10? Write them in the empty boxes.
  125, 364, 475, 750, 800, 628, 206, 508, 7009, 5345, 8710

Divisible by 2	Divisible by 5	Divisible by 10

Let's learn.

Divisibility Tests

Let us study some more tests.

Complete the table below.

Number	Sum of the digits in the number	Is the sum divisible by 3?	Is the given number divisible by 3?
63	6 + 3 = 9	✓	✓
872	17	×	×
91			
552			
9336			
4527			

What can we conclude from this?

Now I know –

Divisibility test for 3 : If the sum of the digits in a number is divisible by 3, then the number is divisible by 3.

Let's learn.

Complete the following table.

Number	Divide the number by 4. Is it completely divisible?	The number formed by the digits in the tens and units places	Is this number divisible by 4?
992	✓	92	✓
7314			
6448			
8116			
7773			
3024			

What can we conclude from this?

Now I know –

Divisibility test for 4 : If the number formed by the digits in the tens and units places of the number is divisible by 4, then that number is divisible by 4.

Let's learn.

Complete the following table.

Number	Divide the number by 9. Is it completely divisible?	Sum of the digits in the number	Is the sum divisible by 9?
1980	✓	1 + 9 + 8 + 0 =18	✓
2999	×	29	×
5004			
13389			
7578			
69993			

What can we conclude from this?

Now I know –

Divisibility test for 9 : **If the sum of the digits of a number is completely divisible by 9, then the number is divisible by 9.**

Practice Set 22

* There are some flowering trees in a garden. Each tree bears many flowers with the same number printed on it. Three children took a basket each to pick flowers. Each basket has one of the numbers, 3, 4 or 9 on it. Each child picks those flowers which have numbers divisible by the number on his or her basket. He/She takes only 1 flower from each tree. Can you tell which numbers the flowers in each basket will have ?