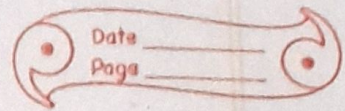


Worksheet Ch-9

Test of divisibility



Q Fill in the blanks

① A number is divisible by 10, if its last digit is 0.

② A number is divisible by 9, if the sum of its digit is divisible by 9.

③ A number is divisible by 6, if it is divisible by 2 and 3.

④ A number is divisible by 5, if its last digit is either 0 or 5.

⑤ A number is divisible by 3, if the sum of its digits is divisible by 3.

Q Answer the following questions.

Q What do you mean by even numbers?

Ans Numbers having 2, 4, 6, 8, and 0 as their one's digit are known as even numbers.

Ex 2, 4, 6, 12, 20, 98, 434, 2082, 34506, etc.

Q What do you mean by odd numbers?

Ans Numbers having 1, 3, 5, 7, and 9 as their one's digit are known as odd numbers.

Ex 3, 5, 9, 35, 97, 59, 645, 3971, 85527, etc.

⑧ Write down all the even numbers in between 50 to 70.

Ans 52, 54, 56, 58, 60, 62, 64, 66, 68

These are all even numbers in between 50 to 70.

⑨ Write down all the odd numbers in between 80 to 100.

Ans 81, 83, 85, 87, 89, 91, 93, 95,
97, 99

These are all odd numbers in between 80 to 100.

⑩ What is the divisibility rule of 4?

Ans A number is divisible by 4 if the number formed by its last two digits is divisible by 4 or if the last two digits are both zeroes.

Ex 226, 400, 3958, 9200, 6100 etc

Q Find the answer.

⑪ Check the divisibility of 7,230 by 3.

Ans 7230: To check its divisibility, we will add all the digits together.

$$7 + 2 + 3 + 0 = 12$$

12 is divisible by 3.

∴ the number 7230 is divisible by 3.

⑫ Check the divisibility of 52361 by 9

Ans 52361: To check its divisibility, we will add all the digits together.

$$5 + 2 + 3 + 6 + 1 = 17$$

17 is not divisible by 9.

∴ the number 52361 is not divisible by 9.

⑬ Check the divisibility of 78684 by 4.

Ans 78684 : As per divisible by 4 rule if the number formed by its last two digit divisible by 4.

84 is divisible by 4

$$\text{As } 4 \times 21 = 84$$

\therefore the number 78684 is divisible by 4.

⑭ Check the divisibility of 2812
by 6.

Ans 2812: 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.

$$2 + 8 + 1 + 2 = 13$$

13 is not divisible by 3.

\therefore 2812 is divisible by 2 but

it is not divisible by 3, therefore

the number 2812 is not divisible

by 6.

⑮ Check the divisibility of 39655 by 5.

Ans 39655: To check its divisibility, we will first look at the last digit (one's digit) is either zero or 5. Since the last digit is 5. \therefore 39655 is divisible by 5.