

Chapter 9

Tests of divisibility

WORKSHEET

A. 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

B. ANSWER THE FOLLOWING QUESTIONS.

6. What do you mean by even numbers?

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

7. What do you mean by odd numbers?

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

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

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

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

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

10. What is the divisibility rule of 4?

A no. is divisible by 4 if last (one digit) is an even number or last two digits are so, it will be divisible by 4.

C. FIND THE ANSWER.

11. Check the divisibility of 7230 by 3.

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

12 is divisible by 3

7230 is divisible by 3

12. Check the divisibility of 52361 by 9.

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

17 is not divisible by 9

52361 is not divisible by 9.

13. Check the divisibility of 78684 by 4.

78684: 84 is divisible by 4. $4 \times 21 = 84$.

so the no 78684 will be divisible by 4.

14. Check the divisibility of 2812 by 6.

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

13 is not divisible by 6

since 2812 is not divisible by both 2 and 3 so the number 2812 is not divisible by 6

15. Check the divisibility of 39655 by 5.

39655 is divisible by 5.

5 is divisible by 5.