## GRADE-5

## **DIVISIBILITY OF NUMBER**

Check the divisibilty rule by following questions

- Q1- Is the number 3075 divisible by 5? Explain the reason?
- Q2- Can the number 135 be divided by 3 without a remainder?
- Q3- Can 1020 be divided by 10 without any remainder?
- Q4- Check if 573 is divisible by 9?
- Q5- Determine if 1248 is divisible by 4?
- Q6- Is the number 81 divisible by 3 and 9??
- Q7- Is 123456 divisible by 11?
- Q8- Can 987654 be divided by 9 without any remainder?
- **Q9- Is 468 divisible by 2, 3, and 6?**
- Q10- Check if 324 is divisible by 8?
- Q11- Replace the \* by the smallest number so that 2\*345 may be divisible by 3
- Q12- Replace the \* by the smallest number so that 78\*964 may be divisible by 9
- Q13- Check if 19440 is divisible by 18?



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# GRADE-5

### **DIVISIBILITY OF NUMBER**

- Ans-1) Yes, 3075 is divisible by 5. A number is divisible by 5 if its last digit is either 0 or 5. Since the last digit of 3075 is 5, it is divisible by 5.
- Ans-2) Yes, 135 can be divided by 3 without a remainder. A number is divisible by 3 if the sum of its digits is divisible by 3. The sum of the digits of 135 is 1+3+5 = 9, and 9 is divisible by 3.
- Ans-3) Yes, 1020 can be divided by 10 without any remainder. A number is divisible by 10 if its last digit is 0. Since the last digit of 1020 is 0, it is divisible by 10.
- Ans-4) No, 573 is not divisible by 9. A number is divisible by 9 if the sum of its digits is divisible by 9. The sum of the digits of 573 is 5+7+3=15, and 15 is not divisible by 9.
- Ans-5) Yes, 1248 is divisible by 4. A number is divisible by 4 if the number formed by its last two digits is divisible by 4. The last two digits of 1248 are 48, and 48 is divisible by 4.
- Ans-6) Yes, 81 is divisible by both 3 and 9. A number is divisible by 3 if the sum of its digits is divisible by 3. The sum of the digits of 81 is 8+1=9, and 9 is divisible by 3. Additionally, a number is divisible by 9 if the sum of its digits is divisible by 9, and since the sum is 9, it is also divisible by 9.
- Ans-7) No, 123456 is not divisible by 11.
- Ans-8) Yes, 987654 can be divided by 9 without any remainder. A number is divisible by 9 if the sum of its digits is divisible by 9. The sum of the digits of 987654 is 9+8+7+6+4=39, and 39 is divisible by 9.
- Ans-9) Yes, 468 is divisible by 2, 3, and 6.
  - a) A number is divisible by 2 if its last digit is even, and the last digit of 468 is 8, which is even.
- b) A number is divisible by 3 if the sum of its digits is divisible by 3. The sum of the digits of 468 is 4+6+8=18 and 18 is divisible by 3.
- A number is divisible by 6 if it is divisible by both 2 and 3. Since 468 meets both criteria, it is divisible by 6.
- Ans-10) Yes, 324 is divisible by 8. A number is divisible by 8 if the number formed by its last three digits is divisible by 8. Since 324 is less than 1000, we can check the entire number. 324÷8=40.5, 324÷8=40.5, which is not an integer, so it is not divisible by 8.
- Ans-11) \* is replaced by 1, so 21345 is divisible by 3.
- Ans-12) The smallest number \* is 2, so 782964 is divisible by 9.
- Ans-13) Yes, 19440 is divisible by 18. A number is divisible by 18 if it is divisible by both 2 and 9.



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