

## Divisibility Rules

- 1 - All numbers are divisible by 1. Any number divided by 1 is itself.
- 2 - A number is divisible by 2 when the digit in the one's place is 0, 2, 4, 6, or 8.
- 3 - A number is divisible by 3 when the digital root of the number is 3, 6, or 9. The digital root of a number is the sum of all the digits until a single digit is shown.
- 4 - A number is divisible by 4 when the digits in the ten's and one's places make a number divisible by 4 or if the number ends in 00.
- 5 - A number is divisible by 5 when the digit in the one's place is 0 or 5.
- 6 - A number is divisible by 6 when it is divisible by 2 and by 3.
- 7 - A number is divisible by 7 when the last digit of the number is doubled and subtracted from the remaining number and the difference is a multiple of 7.
- 8 - A number is divisible by 8 when the digits in the hundred's, ten's and one's places make a number divisible by 8 or if the number ends in 000.
- 9 - A number is divisible by 9 when the digital root of the number is 9. The digital root of a number is the sum of all the digits until a single digit is shown.
- 10 - A number is divisible by 10 when the digit in the one's place is 0.
- 11 - A number is divisible by 11 when starting at the left and adding every other digit. The difference between that sum and the sum of the remaining digits is 0 or a multiple of eleven.
- 12 - A number is divisible by 12 when the number is divisible by 3 and by 4.