# Divisibility Rules

## Last Digit Group

*Dividing by 2*

All even numbers are divisible by 2.

E.g., all numbers ending in 0,2,4,6, or 8.

*Dividing by 5*

Numbers ending in a 5 or a 0 are always divisible by 5.

*Dividing by 10*

If the number ends in a 0, it is divisible by 10.

## Last Group of Digits

*Dividing by 4*

Are the last two digits in your number divisible by 4? If so, the number is too!

E.g., 358912 ends in 12, which is divisible by 4, thus so is 358912.

*Dividing by 8*

If the last 3 digits are divisible by 8, then so is the entire number.

E.g., 6008 – The last 3 digits are divisible by 8, therefore, so is 6008.

## Sum of Digits

*Dividing by 3*

Add up all the digits in the number.
Find out what the sum is.
If the sum is divisible by 3, then so is the number.

E.g., 12123 (1+2+1+2+3=9) 9 is divisible by 3, therefore 12123 is too!

*Dividing by 9*

Almost the same rule as "dividing by 3" . . .
Add up all the digits in the number.
Find out what the sum is.
If the sum is divisible by 9, so is the number.

E.g., 43785 (4+3+7+8+5=27) 27 is divisible by 9, therefore 43785 is too!

## Odd-Ball Rule

*Dividing by 6*

If the number is divisible by 2 and 3, then it is *also* divisible by 6!