

# Multiples of 3 and 5

## Problem 1 (<https://projecteuler.net/problem=1>)

If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of 3 or 5 below 1000.

## Solution

```
In [1]: ▶ sum(x for x in range(1000) if x % 3 == 0 or (x % 3 and x % 5 == 0))  
Out[1]: 233168
```