

# Sum\_Factors



- Data
  - Make a Variable
    - factor
    - number
    - numfacts
    - sum
  - Make a List
    - factors

The sum of the numbers which can be divided by 3 or 5 up to 1000

```
when green flag clicked
  set number to 0
  hide list factors
  hide variable factor
  set sum to 0
  say 
  repeat 1000
    change number by 1
    if number mod 3 = 0 then
      set sum to sum + number
      say number for 0 secs
    else
      if number mod 5 = 0 then
        set sum to sum + number
        say number for 0 secs
  say sum for 10 secs
  say
```

Factorise a number by kludging

```
when this sprite clicked
  delete all of factors
  show list factors
  ask Type number to factorise and wait
  set number to answer
  set factor to 2
  set numfacts to 1
  repeat until factor = number
    repeat until number mod factor = 0
      set factor to factor + 1
    if factor < number then
      add factor to factors
      set number to number / factor
      change numfacts by 1
  add number to factors
  say join numfacts Factors for 10 secs
  say
```

The main loop continues up to the number chosen.  
Is this necessary ?