17. If all the numbers from 1-1000 (inclusive) were written out in words, how many letters would be used?

```
n = {1 => 'one',    2 => 'two',    3 => 'three',
     4 => 'four',   5 => 'five',   6 => 'six',
     7 => 'seven',  8 => 'eight',  9 => 'nine',
    10 => 'ten',   11 => 'eleven', 12 => 'twelve',
    13 => 'thirteen', 14 => 'fourteen', 15 => 'fifteen',
    16 => 'sixteen', 17 => 'seventeen', 18 => 'eighteen',
    19 => 'nineteen', 20 => 'twenty', 30 => 'thirty',
    40 => 'forty',  50 => 'fifty',  60 => 'sixty',
    70 => 'seventy', 80 => 'eighty', 90 => 'ninety',
   100 => 'hundred', 0 => '' }
```

```
def count
  letter_count = 0
  (1..1000).to_a.each do |num|
    word = ''
    word += n[1000] if num == 1000
    if num >= 100 && num < 1000
      word += n[num.to_s[0].to_i]
      word += n[100]
    end
    if num > 100 && (num%100) != 0 && num <
      word += 'and'                        1000
    end
    if num > 9 && num < 1000
      if num.to_s[-2..-1].to_i >= 20
        word += n[num.to_s[-2].to_i * 10]
        word += n[num.to_s[-1].to_i]
      elsif num.to_s[-2..-1].to_i < 20
        word += n[num.to_s[-2..-1].to_i]
      end
    else
      word += n[num] unless num == 1000
    end
    letter_count += word.length
  end
  letter_count
end
```