Divide Two Integers

Question: Divide two integers without using multiplication, division and mod operator.

<u>Solutions:</u>

```python
class Solution:
    # @return an integer
    def divide(dividend, divisor):
        if (dividend < 0 and divisor > 0) or (dividend > 0 and divisor < 0):
            if abs(dividend) < abs(divisor):
                return 0
        sum = 0; count = 0; res = 0
        a = abs(dividend); b = abs(divisor)
        while a >= b:
            sum = b
            count = 1
            while sum + sum <= a:
                sum += sum
                count += count
            a -= sum
            res += count
        if (dividend < 0 and divisor > 0) or (dividend > 0 and divisor < 0):
            res = 0 - res
        return res


Solution.divide(100,5)
```