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## Test 1 Crash Course

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# Average Value

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## Average Value

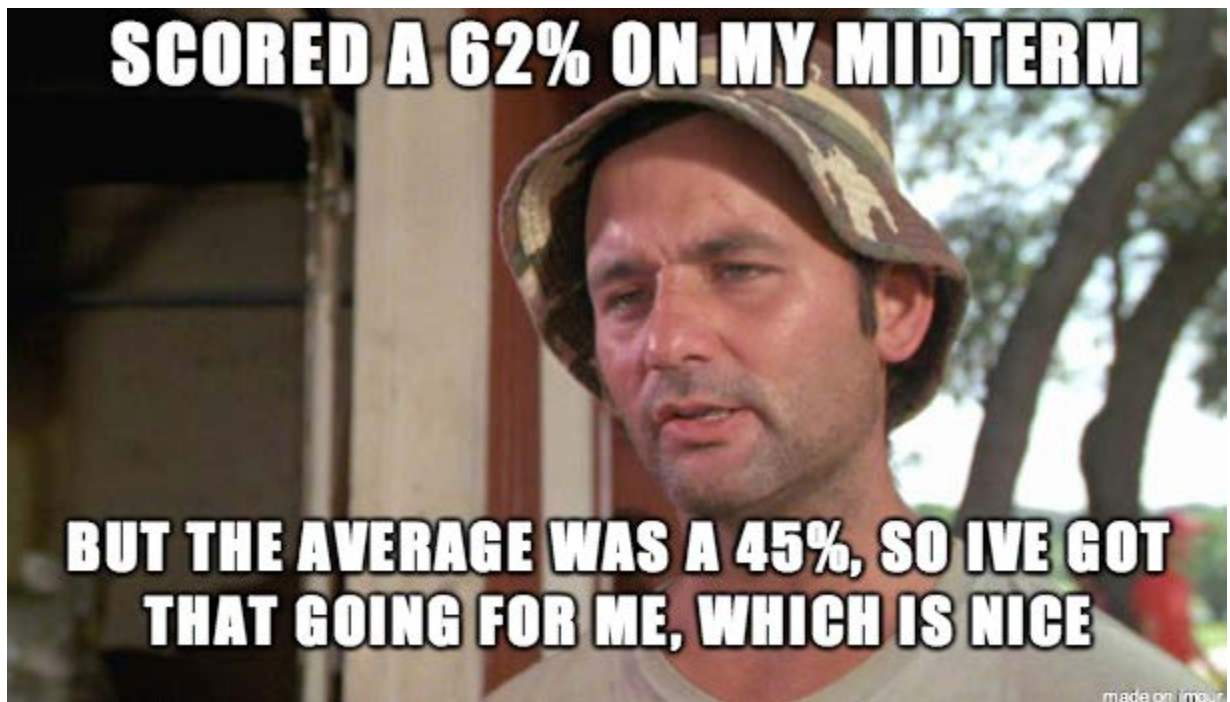
$$F_{avg} = \frac{1}{b-a} \int_a^b f(x) dx$$

**Example:** Find the average value of the function  $f(x) = x^2$  on the interval  $[0,2]$

**Example:** Find the number(s)  $a$  such that the average value of the function  $f(t) = 1 + t + t^2$  on the interval  $[-a, a]$  is equal to 4.

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