

EXAMPLES of AMC 10 B – PROBLEMS

1. Lucky Larry's teacher asked him to substitute numbers for a, b, c, d , and e in the expression $a - (b - (c - (d + e)))$ and evaluate the result. Larry ignored the parentheses but added and subtracted correctly and obtained the correct result by coincidence. The numbers Larry substituted for a, b, c , and d were 1, 2, 3, and 4, respectively. What number did Larry substitute for e ?

2. The average of the numbers 1, 2, 3, ..., 98, 99, and x is $100x$. What is x ?

3. A drawer contains red, green, blue and white socks with at least 2 of each color. What is the minimum number of socks that must be pulled from the drawer to guarantee a matching pair?