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MONEY

17. Answer (D): Neither of the exchanges quarter → five nickels nor nickel → five pennies changes the total value of Boris's coins. The exchange penny → five quarters increase the total value of Boris's coins by \$1.24. Hence, Boris must have \$.01 + \$1.24n after n uses of the last exchange. Only option D is of this form: 745 = 1 + 124 · 6. In cents, option A is 115 more than a multiple of 124, B is 17 more than a multiple of 124, C is 10 more than a multiple of 124, and E is 39 more than a multiple of 124.