Q55. A check digit for a 4-digit number $X_1X_2X_3X_4$ can be calculated as follows: $mod((X_1\times 4+X_2\times 3+X_3\times 2+X_4\times 1), 10)$

When the check digit for the 4-digit number " $7X_242$ " is equal to 6, which of the following is the correct number to be put in X_2 ? Here, mod (a,b) returns the remainder after "a" is divided by "b."

a) 5 b) 6 c) 7 d) 8