Test Case

## Setup:

* Total Yearly Expenses = 1000 [TYE]
* Total Monthly Expenses = 200 [TME]
* Total Expenses = 1200 (1000 + 200) [TE]
* Total Income = 5000 [TI]
* Minimum Cushion = 500 [MC]
* Amount that should be in Salary & Expenses after distribution = 1700 (TE + MC) [A1]
* Usual amount leftover in Salary & Expenses at end of month = 1500 (A1 – TME]

### **Case 1: let’s say I have 1500 leftover in my salary and expenses account (A0 Starting Balance = 6500 (TI + 1500)):**

1. Amount to transfer from salary and expenses account to savings account = 0 (amount leftover 1500 – min cushion 500 – total yearly expenses 1000) 🡪 <balance = 6500>
2. Amount to transfer from salary and expenses account to spendings account = 4800 (total income 5000 – total monthly expenses 200) 🡪 <balance = 1700>
3. Amount to transfer from savings account to salary and expenses account to cover any yearly expense costs = (TE + MC) - (6500 – 4800) = 0

### **Case 2: let’s say I have 1600 leftover in my salary and expenses account (starting balance = 6600 (TI + 1600)):**

1. Amount to transfer from salary and expenses account to savings account = £100 (amount leftover 1600 – min cushion 500 – total yearly expenses 1000) 🡪 <balance = 6500>
2. Amount to transfer from salary and expenses account to spendings account = 4800 (total income 5000 – total monthly expenses 200) 🡪 <balance = 1700>
3. Amount to transfer from savings account to salary and expenses account to cover any yearly expense consts = (TE + MC) – (6500 – 4800) = 0

### **Case 3: let’s say I have 1200 leftover in my salary and expenses account (Starting Balance = 6200 (TI + 1200))**

1. Amount to transfer from salary and expenses account to savings account = A MINUS NUMBER SO 0 (amount leftover 1200 – min cushion 500 – total yearly expenses 1000) 🡪 <balance = 6200>
2. Amount to transfer from salary and expenses account to spendings account = 4800 (total income 5000 – total monthly expenses 200) 🡪 <balance = 1400>
3. Amount to transfer from savings account to salary and expenses account to cover any yearly expense consts = (TE + MC) – (6200 - 4800) = 300 🡪 <balance = 1700>

### **Case 4: let’s say I have 300 leftover in my salary and expenses account (Starting balance = 5300 (TI + 300)):**

OPTION 1: REPLACING MINIMUM CUSHION FROM YEARLY EXP SAVINGS ACCOUNT

1. Is amount leftover less than the minimum cushion? If so…
2. Amount to transfer from salary and expenses account to savings account = 300 (amount letover) 🡪 <balance = 5000>
3. Amount to transfer from salary and expenses account to spendings account = 4300 (total income 5000 – total monthly expenses 200 – minimum cushion 500) 🡪 <balance = 700>
4. Amount to transfer from savings account to salary and expenses account to cover any yearly expense costs = (TE + MC) – (5000 – 4300) = 1000 🡪 <balance = 1700>