Check Digit Formula

Note: Digit 1 is the first digit on the right. Digit 15 is the first digit on the left.

Step 1	**Multiply Digit**	**By**	**Resulting in:**
	15	4	M1
	14	3	M2
	13	2	M3
	12	7	M4
	11	6	M5
	10	5	M6
	9	4	M7
	8	3	M8
	7	2	M9
	6	7	M10
	5	6	M11
	4	5	M12
	3	4	M13
	2	3	M14
	1	2	M15
Step 2	Add M1 through M15		
Step 3	Divide the total by 11 and determine the remainder.		
Step 4	If 0 or 1, then the remainder is the check digit. If the remainder is greater than 1, subtract from 11. The result is the check digit		

EXAMPLES

Number	726572240547629			
Step 1	**Multiply Digit**	**Character**	**Multiplier**	**Resulting in:**
	15	7	4	28
	14	2	3	6
	13	6	2	12
	12	5	7	35
	11	7	6	42
	10	2	5	10
	9	2	4	8
	8	4	3	12
	7	0	2	0
	6	5	7	35
	5	4	6	24
	4	7	5	35
	3	6	4	24
	2	2	3	6
	1	9	2	18
Step 2	Add M1 through M15			295
Step 3	Divide the total by 11 and determine the remainder.			9

Number	981970265121890			
Step 1	**Multiply Digit**	**Character**	**Multiplier**	**Resulting in:**
	15	9	4	36
	14	8	3	24
	13	1	2	2
	12	9	7	63
	11	7	6	42
	10	0	5	0
	9	2	4	8
	8	6	3	18
	7	5	2	10
	6	1	7	7
	5	2	6	12
	4	1	5	5
	3	8	4	32
	2	9	3	27
	1	0	2	0
Step 2	Add M1 through M15			286
Step 3	Divide the total by 11 and determine the remainder.			0

Step 4	If the remainder is 0 or 1, then the remainder is the check digit.	
	If the remainder is greater than 1, subtract from 11. The result is the check digit.	2

Step 4	If the remainder is 0 or 1, then the remainder is the check digit.	0
	If the remainder is greater than 1, subtract from 11. The result is the check digit.	

Number	573453405737451			
Step 1	**Multiply Digit**	**Character**	**Multiplier**	**Resulting in:**
	15	5	4	20
	14	7	3	21
	13	3	2	6
	12	4	7	28
	11	5	6	30
	10	3	5	15
	9	4	4	16
	8	0	3	0
	7	5	2	10
	6	7	7	49
	5	3	6	18
	4	7	5	35
	3	4	4	16
	2	5	3	15
	1	1	2	2
Step 2	Add M1 through M15			281
Step 3	Divide the total by 11 and determine the remainder.			6
Step 4	If the remainder is 0 or 1, then the remainder is the check digit.			
	If the remainder is greater than 1, subtract from 11. The result is the check digit			5

Number	479112323236405			
Step 1	**Multiply Digit**	**Character**	**Multiplier**	**Resulting in:**
	15	4	4	16
	14	7	3	21
	13	9	2	18
	12	1	7	7
	11	1	6	6
	10	2	5	10
	9	3	4	12
	8	2	3	6
	7	3	2	6
	6	2	7	14
	5	3	6	18
	4	6	5	30
	3	4	4	16
	2	0	3	0
	1	5	2	10
Step 2	Add M1 through M15			190
Step 3	Divide the total by 11 and determine the remainder.			3
Step 4	If the remainder is 0 or 1, then the remainder is the check digit.			
	If the remainder is greater than 1, subtract from 11. The result is the check digit			8