Resource Sharing Alliance NFP
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Mod 10 Calculation Guide

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When you are purchasing item or user barcodes, please have your vendor create proofs and send them to us at help@rsanfp.org, so that we can check that they will work correctly in WorkFlows. You may share this methodology with your vendor. Please note that this method ignores the leading alpha character, (A for items and a D for users).

Original OCR/Bar Code number: A33500320868

Digit at end of OCR/Bar Code is check digit: 8

Position:	11	10	9	8	7	6	5	4	3	2	1
Code:	3	3	5	0	0	3	2	0	8	6	8

Calculation		Product
11 X 3	=	33
10 X 3	=	30
9 X 5	=	45
8 X 0	=	0
7 X 0	=	0
6 X 3	=	18
5 X 2	=	10
4 X 0	=	0
3 X 8	=	24
2 X 6	=	12
Total		**172**

10/172 = 17 with a remainder of 2

Check digit = 10 - remainder
= 10 - 2
= 8