

# Return of Organization Exempt From Income Tax

OMB No. 1545-0047

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

**2019**

▶ Do not enter social security numbers on this form as it may be made public.  
 ▶ Go to [www.irs.gov/Form990](http://www.irs.gov/Form990) for instructions and the latest information.

**Open to Public Inspection**

**A** For the 2019 calendar year, or tax year beginning 2019, and ending 20

<b>B</b> Check if applicable:	<b>C</b> Name of organization <u>Mathematical Staircase, Inc.</u>	<b>D</b> Employer identification number <u>46-1813949</u>
<input type="checkbox"/> Address change	Doing business as	<b>E</b> Telephone number <u>720-771-6428</u>
<input type="checkbox"/> Name change	Number and street (or P.O. box if mail is not delivered to street address) Room/suite <u>231 W. Franklin St.</u>	
<input type="checkbox"/> Initial return	City or town, state or province, country, and ZIP or foreign postal code <u>Holyoke, MA 01040</u>	<b>G</b> Gross receipts \$ <u>344,933</u>
<input type="checkbox"/> Final return/terminated	<b>F</b> Name and address of principal officer: <u>sarah-marie belcastro, 231 W. Franklin St., Holyoke MA 01040</u>	
<input type="checkbox"/> Amended return		<b>H(a)</b> Is this a group return for subordinates? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Application pending		<b>H(b)</b> Are all subordinates included? <input type="checkbox"/> Yes <input type="checkbox"/> No If "No," attach a list. (see instructions)
<b>I</b> Tax-exempt status: <input checked="" type="checkbox"/> 501(c)(3) <input type="checkbox"/> 501(c) ( ) (insert no.) <input type="checkbox"/> 4947(a)(1) or <input type="checkbox"/> 527		<b>H(c)</b> Group exemption number ▶
<b>J</b> Website: ▶ <u>www.mathstaircase.org</u>		<b>L</b> Year of formation: <u>2013</u> <b>M</b> State of legal domicile: <u>MA</u>
<b>K</b> Form of organization: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Trust <input type="checkbox"/> Association <input type="checkbox"/> Other ▶		

**Part I Summary**

Activities & Governance	<b>1</b>	Briefly describe the organization's mission or most significant activities: <u>To educate mathematically talented secondary and tertiary students in mathematical thinking and writing. The means of providing such education includes, but is not limited to, establishing summer programs for instructing such students</u>		
	<b>2</b>	Check this box <input type="checkbox"/> if the organization discontinued its operations or disposed of more than 25% of its net assets.		
	<b>3</b>	Number of voting members of the governing body (Part VI, line 1a) . . . . .	<b>3</b>	<b>5</b>
	<b>4</b>	Number of independent voting members of the governing body (Part VI, line 1b) . . . . .	<b>4</b>	<b>3</b>
	<b>5</b>	Total number of individuals employed in calendar year 2019 (Part V, line 2a) . . . . .	<b>5</b>	<b>4</b>
	<b>6</b>	Total number of volunteers (estimate if necessary) . . . . .	<b>6</b>	<b>2</b>
	<b>7a</b>	Total unrelated business revenue from Part VIII, column (C), line 12 . . . . .	<b>7a</b>	<b>0</b>
	<b>b</b> Net unrelated business taxable income from Form 990-T, line 39 . . . . .	<b>7b</b>	<b>0</b>	
Revenue	<b>8</b>	Contributions and grants (Part VIII, line 1h) . . . . .	Prior Year <u>17,204</u>	Current Year <u>68,530</u>
	<b>9</b>	Program service revenue (Part VIII, line 2g) . . . . .	<u>304,479</u>	<u>276,403</u>
	<b>10</b>	Investment income (Part VIII, column (A), lines 3, 4, and 7d) . . . . .	<u>0</u>	<u>0</u>
	<b>11</b>	Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e) . . . . .	<u>0</u>	<u>0</u>
	<b>12</b>	Total revenue—add lines 8 through 11 (must equal Part VIII, column (A), line 12)	<u>321,683</u>	<u>344,933</u>
Expenses	<b>13</b>	Grants and similar amounts paid (Part IX, column (A), lines 1–3) . . . . .	<u>0</u>	<u>0</u>
	<b>14</b>	Benefits paid to or for members (Part IX, column (A), line 4) . . . . .	<u>0</u>	<u>0</u>
	<b>15</b>	Salaries, other compensation, employee benefits (Part IX, column (A), lines 5–10)	<u>41,313</u>	<u>50,914</u>
	<b>16a</b>	Professional fundraising fees (Part IX, column (A), line 11e) . . . . .	<u>0</u>	<u>0</u>
	<b>b</b>	Total fundraising expenses (Part IX, column (D), line 25) ▶		
	<b>17</b>	Other expenses (Part IX, column (A), lines 11a–11d, 11f–24e) . . . . .	<u>270,862</u>	<u>305,410</u>
	<b>18</b> Total expenses. Add lines 13–17 (must equal Part IX, column (A), line 25) . . . . .	<u>312,175</u>	<u>356,324</u>	
	<b>19</b> Revenue less expenses. Subtract line 18 from line 12 . . . . .	<u>9,508</u>	<u>(11,391)</u>	
Net Assets or Fund Balances	<b>20</b>	Total assets (Part X, line 16) . . . . .	Beginning of Current Year <u>99,015</u>	End of Year <u>87,611</u>
	<b>21</b>	Total liabilities (Part X, line 26) . . . . .	<u>0</u>	<u>0</u>
	<b>22</b>	Net assets or fund balances. Subtract line 21 from line 20 . . . . .	<u>99,015</u>	<u>87,611</u>

**Part II Signature Block**

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

<b>Sign Here</b>	Signature of officer	Date
	Type or print name and title	

<b>Paid Preparer Use Only</b>	Print/Type preparer's name	Preparer's signature	Date	Check <input type="checkbox"/> if self-employed	PTIN
	Firm's name ▶	Firm's EIN ▶			
	Firm's address ▶	Phone no.			

May the IRS discuss this return with the preparer shown above? (see instructions) . . . . .  Yes  No

**Part III Statement of Program Service Accomplishments**

Check if Schedule O contains a response or note to any line in this Part III

**1** Briefly describe the organization's mission:  
The specific purposes for which this corporation is organized are: to educate mathematically talented secondary and tertiary students in mathematical thinking and writing. The means of providing such education includes, but is not limited to, establishing residential summer programs for instructing such students.

**2** Did the organization undertake any significant program services during the year which were not listed on the prior Form 990 or 990-EZ?  Yes  No  
If "Yes," describe these new services on Schedule O.

**3** Did the organization cease conducting, or make significant changes in how it conducts, any program services?  Yes  No  
If "Yes," describe these changes on Schedule O.

**4** Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses. Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and revenue, if any, for each program service reported.

**4a** (Code: ) (Expenses \$ 167,064 including grants of \$ ) (Revenue \$ 160,765 )  
MathLy: a residential summer program for mathematically gifted high-school students. Number of students enrolled was 38 in a 5-week program of courses, presentations and leisure activities. Nine trainees (staff members) also benefitted.

**4b** (Code: ) (Expenses \$ 116,750 including grants of \$ ) (Revenue \$ 115,638 )  
MathLy-Er: Similar to MathLy with slightly younger students and who are earlier in their mathematical development. Number of students enrolled was 28 in a 5-week program of courses, presentations and leisure activities. Six trainees (staff members) also benefitted.

**4c** (Code: ) (Expenses \$ 53,313 including grants of \$ ) (Revenue \$ 53,105 )  
MathLy-EST: A Research Experience for Undergraduates (REU) focused on beginning college students. Number of students enrolled was 6 in a 8-week program focused on a program of research, presentations, interactions with the MathLy Students and leisure activities.

**4d** Other program services (Describe on Schedule O.)  
(Expenses \$ including grants of \$ ) (Revenue \$ )

**4e** Total program service expenses ▶ 337,127

Part IV Checklist of Required Schedules

Table with 3 columns: Question number, Question text, Yes, No. Rows include questions 1 through 21 regarding organizational requirements and reporting.

**Part IV Checklist of Required Schedules** *(continued)*

		Yes	No
<b>22</b>	Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on Part IX, column (A), line 2? <i>If "Yes," complete Schedule I, Parts I and III</i>		✓
<b>23</b>	Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current and former officers, directors, trustees, key employees, and highest compensated employees? <i>If "Yes," complete Schedule J</i>		✓
<b>24a</b>	Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the last day of the year, that was issued after December 31, 2002? <i>If "Yes," answer lines 24b through 24d and complete Schedule K. If "No," go to line 25a</i>		✓
<b>b</b>	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		✓
<b>c</b>	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?		✓
<b>d</b>	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?		✓
<b>25a</b>	<b>Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations.</b> Did the organization engage in an excess benefit transaction with a disqualified person during the year? <i>If "Yes," complete Schedule L, Part I</i>		✓
<b>b</b>	Is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? <i>If "Yes," complete Schedule L, Part I</i>		✓
<b>26</b>	Did the organization report any amount on Part X, line 5 or 22, for receivables from or payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part II</i>		✓
<b>27</b>	Did the organization provide a grant or other assistance to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity (including an employee thereof) or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>		✓
<b>28</b>	Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV instructions, for applicable filing thresholds, conditions, and exceptions):		
<b>a</b>	A current or former officer, director, trustee, key employee, creator or founder, or substantial contributor? <i>If "Yes," complete Schedule L, Part IV</i>		✓
<b>b</b>	A family member of any individual described in line 28a? <i>If "Yes," complete Schedule L, Part IV</i>	✓	
<b>c</b>	A 35% controlled entity of one or more individuals and/or organizations described in lines 28a or 28b? <i>If "Yes," complete Schedule L, Part IV</i>		✓
<b>29</b>	Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>		✓
<b>30</b>	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>		✓
<b>31</b>	Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>		✓
<b>32</b>	Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? <i>If "Yes," complete Schedule N, Part II</i>		✓
<b>33</b>	Did the organization own 100% of an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? <i>If "Yes," complete Schedule R, Part I</i>		✓
<b>34</b>	Was the organization related to any tax-exempt or taxable entity? <i>If "Yes," complete Schedule R, Part II, III, or IV, and Part V, line 1</i>		✓
<b>35a</b>	Did the organization have a controlled entity within the meaning of section 512(b)(13)?		✓
<b>b</b>	If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity within the meaning of section 512(b)(13)? <i>If "Yes," complete Schedule R, Part V, line 2</i>		
<b>36</b>	<b>Section 501(c)(3) organizations.</b> Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>		✓
<b>37</b>	Did the organization conduct more than 5% of its activities through an entity that is not a related organization and that is treated as a partnership for federal income tax purposes? <i>If "Yes," complete Schedule R, Part VI</i>		✓
<b>38</b>	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? <b>Note:</b> All Form 990 filers are required to complete Schedule O.	✓	

**Part V Statements Regarding Other IRS Filings and Tax Compliance**

Check if Schedule O contains a response or note to any line in this Part V

		Yes	No
<b>1a</b>	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable		
<b>b</b>	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable		
<b>c</b>	Did the organization comply with backup withholding rules for reportable payments to vendors and reportable gaming (gambling) winnings to prize winners?		

Part V Statements Regarding Other IRS Filings and Tax Compliance (continued)

Table with columns for question number, question text, and Yes/No response boxes. Includes questions 2a through 16 regarding employee reporting, tax returns, business income, foreign accounts, prohibited transactions, and charitable contributions.

**Part VI Governance, Management, and Disclosure** For each "Yes" response to lines 2 through 7b below, and for a "No" response to line 8a, 8b, or 10b below, describe the circumstances, processes, or changes on Schedule O. See instructions.

Check if Schedule O contains a response or note to any line in this Part VI

**Section A. Governing Body and Management**

Table with 3 columns: Question, Yes, No. Rows include 1a (5), 1b (3), 2, 3, 4, 5, 6, 7a, 7b, 8a, 8b, 9. Marked 'Yes' for 2, 8a, 8b, 9. Marked 'No' for 3, 4, 5, 6, 7a, 7b.

**Section B. Policies** (This Section B requests information about policies not required by the Internal Revenue Code.)

Table with 3 columns: Question, Yes, No. Rows include 10a, 10b, 11a, 11b, 12a, 12b, 12c, 13, 14, 15a, 15b, 16a, 16b. Marked 'Yes' for 11a, 12a, 12b, 12c, 13, 14, 16a. Marked 'No' for 10a, 10b, 15a, 15b, 16b.

**Section C. Disclosure**

- 17 List the states with which a copy of this Form 990 is required to be filed MA
18 Section 6104 requires an organization to make its Forms 1023 (1024 or 1024-A, if applicable), 990, and 990-T (Section 501(c)(3)s only) available for public inspection. Indicate how you made these available. Check all that apply.
19 Describe on Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, and financial statements available to the public during the tax year.
20 State the name, address, and telephone number of the person who possesses the organization's books and records sarah-marie belcastro, 231 W. Franklin St., Holyoke, M 01040 tel: 413-341-1373

**Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated Employees, and Independent Contractors**

Check if Schedule O contains a response or note to any line in this Part VII

**Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees**

**1a** Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.

- List all of the organization's **current** officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
- List all of the organization's **current** key employees, if any. See instructions for definition of "key employee."
- List the organization's five **current** highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's **former** officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's **former directors or trustees** that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

See instructions for the order in which to list the persons above.

Check this box if neither the organization nor any related organization compensated any current officer, director, or trustee.

(A) Name and title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(1) sarah-marie belcastro, PhD, President and Chair of the Board	14.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29,165	0	0
(2) Hannah Alpert, PhD, Clerk and Secretary of the Board	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0
(3) Joan Belcastro, Treasurer	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0
(4) Joshua Greene, PhD, Director	.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0
(5) Emily Peters, PhD, Director	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	0	0
(6)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(7)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(8)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(9)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(10)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(11)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(12)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(13)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
(14)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

**Part VII Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees** *(continued)*

(A) Name and title	(B) Average hours per week (list any hours for related organizations below dotted line)	(C) Position (do not check more than one box, unless person is both an officer and a director/trustee)						(D) Reportable compensation from the organization (W-2/1099-MISC)	(E) Reportable compensation from related organizations (W-2/1099-MISC)	(F) Estimated amount of other compensation from the organization and related organizations
		Individual trustee or director	Institutional trustee	Officer	Key employee	Highest compensated employee	Former			
(15)										
(16)										
(17)										
(18)										
(19)										
(20)										
(21)										
(22)										
(23)										
(24)										
(25)										
<b>1b Subtotal</b>							29,165	0	0	
<b>c Total from continuation sheets to Part VII, Section A</b>							0	0	0	
<b>d Total (add lines 1b and 1c)</b>							29,165	0	0	

**2** Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization **▶** none

	Yes	No
<b>3</b> Did the organization list any <b>former</b> officer, director, trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		✓
<b>4</b> For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? <i>If "Yes," complete Schedule J for such individual</i>		✓
<b>5</b> Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? <i>If "Yes," complete Schedule J for such person</i>		✓

**Section B. Independent Contractors**

**1** Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation

**2** Total number of independent contractors (including but not limited to those listed above) who received more than \$100,000 of compensation from the organization **▶** none



**Part VIII Statement of Revenue**

Check if Schedule O contains a response or note to any line in this Part VIII

		(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512-514	
<b>Contributions, Gifts, Grants and Other Similar Amounts</b>	<b>1a</b> Federated campaigns . . . . .	<b>1a</b>				
	<b>b</b> Membership dues . . . . .	<b>1b</b>				
	<b>c</b> Fundraising events . . . . .	<b>1c</b>				
	<b>d</b> Related organizations . . . . .	<b>1d</b>				
	<b>e</b> Government grants (contributions)	<b>1e</b>	53,105			
	<b>f</b> All other contributions, gifts, grants, and similar amounts not included above	<b>1f</b>	15,425			
	<b>g</b> Noncash contributions included in lines 1a-1f . . . . .	<b>1g</b>	\$			
	<b>h Total.</b> Add lines 1a-1f . . . . .		68,530			
<b>Program Service Revenue</b>	<b>2a</b> MathLy Student Fees	Business Code 611699	160,765	160,765	0	
	<b>b</b> MathLy-Er Student Fees	611699	115,638	115,638	0	
	<b>c</b> . . . . .					
	<b>d</b> . . . . .					
	<b>e</b> . . . . .					
	<b>f</b> All other program service revenue . . . . .					
	<b>g Total.</b> Add lines 2a-2f . . . . .		276,403			
<b>Other Revenue</b>	<b>3</b> Investment income (including dividends, interest, and other similar amounts) . . . . .		0			
	<b>4</b> Income from investment of tax-exempt bond proceeds		0			
	<b>5</b> Royalties . . . . .		0			
	<b>6a</b> Gross rents . . . . .	(i) Real				
		(ii) Personal				
		<b>6b</b> Less: rental expenses				
	<b>c</b> Rental income or (loss)	<b>6c</b>				
	<b>d</b> Net rental income or (loss) . . . . .		0			
	<b>7a</b> Gross amount from sales of assets other than inventory	(i) Securities				
		(ii) Other				
		<b>7b</b> Less: cost or other basis and sales expenses . . . . .	<b>7b</b>			
	<b>c</b> Gain or (loss) . . . . .	<b>7c</b>				
	<b>d</b> Net gain or (loss) . . . . .		0			
	<b>8a</b> Gross income from fundraising events (not including \$ of contributions reported on line 1c). See Part IV, line 18 . . . . .	<b>8a</b>				
		<b>8b</b> Less: direct expenses . . . . .	<b>8b</b>			
	<b>c</b> Net income or (loss) from fundraising events . . . . .		0			
	<b>9a</b> Gross income from gaming activities. See Part IV, line 19 . . . . .	<b>9a</b>				
		<b>9b</b> Less: direct expenses . . . . .	<b>9b</b>			
<b>c</b> Net income or (loss) from gaming activities . . . . .		0				
<b>10a</b> Gross sales of inventory, less returns and allowances . . . . .	<b>10a</b>					
	<b>10b</b> Less: cost of goods sold . . . . .	<b>10b</b>				
<b>c</b> Net income or (loss) from sales of inventory . . . . .		0				
<b>Miscellaneous Revenue</b>	<b>11a</b> . . . . .	Business Code				
	<b>b</b> . . . . .					
	<b>c</b> . . . . .					
	<b>d</b> All other revenue . . . . .					
	<b>e Total.</b> Add lines 11a-11d . . . . .					
<b>12 Total revenue.</b> See instructions . . . . .		344,933	276,403	0	0	

**Part IX Statement of Functional Expenses**

Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A).

Check if Schedule O contains a response or note to any line in this Part IX

**Do not include amounts reported on lines 6b, 7b, 8b, 9b, and 10b of Part VIII.**

	(A) Total expenses	(B) Program service expenses	(C) Management and general expenses	(D) Fundraising expenses
<b>1</b> Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21 . . . . .				
<b>2</b> Grants and other assistance to domestic individuals. See Part IV, line 22 . . . . .				
<b>3</b> Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16 . . . . .				
<b>4</b> Benefits paid to or for members . . . . .				
<b>5</b> Compensation of current officers, directors, trustees, and key employees . . . . .	29,165	29,165		
<b>6</b> Compensation not included above to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B) . . . . .				
<b>7</b> Other salaries and wages . . . . .	17,275	17,275		
<b>8</b> Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions) . . . . .				
<b>9</b> Other employee benefits . . . . .				
<b>10</b> Payroll taxes . . . . .	4,474	4,474		
<b>11</b> Fees for services (nonemployees):				
<b>a</b> Management . . . . .				
<b>b</b> Legal . . . . .				
<b>c</b> Accounting . . . . .	925		925	
<b>d</b> Lobbying . . . . .				
<b>e</b> Professional fundraising services. See Part IV, line 17 . . . . .				
<b>f</b> Investment management fees . . . . .				
<b>g</b> Other. (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O.) . . . . .				
<b>12</b> Advertising and promotion . . . . .	84	84		
<b>13</b> Office expenses . . . . .	5,020	4,586	434	
<b>14</b> Information technology . . . . .				
<b>15</b> Royalties . . . . .				
<b>16</b> Occupancy . . . . .				
<b>17</b> Travel . . . . .	7,307	7,307		
<b>18</b> Payments of travel or entertainment expenses for any federal, state, or local public officials . . . . .				
<b>19</b> Conferences, conventions, and meetings . . . . .				
<b>20</b> Interest . . . . .				
<b>21</b> Payments to affiliates . . . . .				
<b>22</b> Depreciation, depletion, and amortization . . . . .				
<b>23</b> Insurance . . . . .	3,197	3,197		
<b>24</b> Other expenses. Itemize expenses not covered above (List miscellaneous expenses on line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
<b>a</b> Facilities	205,854	205,854		
<b>b</b> Contracted Services	58,420	58,420		
<b>c</b> REU Stipends	22,800	22,800		
<b>d</b> Background Checks	951	951		
<b>e</b> All other expenses Miscellaneous	852		852	
<b>25</b> Total functional expenses. Add lines 1 through 24e	356,324	354,113	2,211	
<b>26</b> Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation. Check here <input type="checkbox"/> if following SOP 98-2 (ASC 958-720) . . . . .				

**Part X Balance Sheet**

Check if Schedule O contains a response or note to any line in this Part X

		(A) Beginning of year		(B) End of year
<b>Assets</b>	<b>1</b> Cash—non-interest-bearing . . . . .	99,015	<b>1</b>	87,611
	<b>2</b> Savings and temporary cash investments . . . . .		<b>2</b>	
	<b>3</b> Pledges and grants receivable, net . . . . .		<b>3</b>	
	<b>4</b> Accounts receivable, net . . . . .		<b>4</b>	
	<b>5</b> Loans and other receivables from any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons . . . . .		<b>5</b>	
	<b>6</b> Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), and persons described in section 4958(c)(3)(B) . . . . .		<b>6</b>	
	<b>7</b> Notes and loans receivable, net . . . . .		<b>7</b>	
	<b>8</b> Inventories for sale or use . . . . .		<b>8</b>	
	<b>9</b> Prepaid expenses and deferred charges . . . . .		<b>9</b>	
	<b>10a</b> Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D . . . . .	<b>10a</b>		
	<b>b</b> Less: accumulated depreciation . . . . .	<b>10b</b>		<b>10c</b>
	<b>11</b> Investments—publicly traded securities . . . . .		<b>11</b>	
	<b>12</b> Investments—other securities. See Part IV, line 11 . . . . .		<b>12</b>	
	<b>13</b> Investments—program-related. See Part IV, line 11 . . . . .		<b>13</b>	
	<b>14</b> Intangible assets . . . . .		<b>14</b>	
	<b>15</b> Other assets. See Part IV, line 11 . . . . .		<b>15</b>	
<b>16 Total assets.</b> Add lines 1 through 15 (must equal line 33) . . . . .		99,015	<b>16</b>	87,611
<b>Liabilities</b>	<b>17</b> Accounts payable and accrued expenses . . . . .		<b>17</b>	
	<b>18</b> Grants payable . . . . .		<b>18</b>	
	<b>19</b> Deferred revenue . . . . .		<b>19</b>	
	<b>20</b> Tax-exempt bond liabilities . . . . .		<b>20</b>	
	<b>21</b> Escrow or custodial account liability. Complete Part IV of Schedule D . . . . .		<b>21</b>	
	<b>22</b> Loans and other payables to any current or former officer, director, trustee, key employee, creator or founder, substantial contributor, or 35% controlled entity or family member of any of these persons . . . . .		<b>22</b>	
	<b>23</b> Secured mortgages and notes payable to unrelated third parties . . . . .		<b>23</b>	
	<b>24</b> Unsecured notes and loans payable to unrelated third parties . . . . .		<b>24</b>	
	<b>25</b> Other liabilities (including federal income tax, payables to related third parties, and other liabilities not included on lines 17–24). Complete Part X of Schedule D . . . . .		<b>25</b>	
	<b>26 Total liabilities.</b> Add lines 17 through 25 . . . . .		0	<b>26</b>
<b>Net Assets or Fund Balances</b>	<b>Organizations that follow FASB ASC 958, check here</b> <input checked="" type="checkbox"/> <b>and complete lines 27, 28, 32, and 33.</b>			
	<b>27</b> Net assets without donor restrictions . . . . .	99,015	<b>27</b>	87,611
	<b>28</b> Net assets with donor restrictions . . . . .		<b>28</b>	
	<b>Organizations that do not follow FASB ASC 958, check here</b> <input type="checkbox"/> <b>and complete lines 29 through 33.</b>			
	<b>29</b> Capital stock or trust principal, or current funds . . . . .		<b>29</b>	
	<b>30</b> Paid-in or capital surplus, or land, building, or equipment fund . . . . .		<b>30</b>	
	<b>31</b> Retained earnings, endowment, accumulated income, or other funds . . . . .		<b>31</b>	
	<b>32</b> Total net assets or fund balances . . . . .	99,015	<b>32</b>	87,611
<b>33</b> Total liabilities and net assets/fund balances . . . . .	99,015	<b>33</b>	87,611	

**Part XI Reconciliation of Net Assets**

Check if Schedule O contains a response or note to any line in this Part XI

<b>1</b>	Total revenue (must equal Part VIII, column (A), line 12)	<b>1</b>	344,933
<b>2</b>	Total expenses (must equal Part IX, column (A), line 25)	<b>2</b>	356,324
<b>3</b>	Revenue less expenses. Subtract line 2 from line 1	<b>3</b>	(11,391)
<b>4</b>	Net assets or fund balances at beginning of year (must equal Part X, line 32, column (A))	<b>4</b>	99,015
<b>5</b>	Net unrealized gains (losses) on investments	<b>5</b>	
<b>6</b>	Donated services and use of facilities	<b>6</b>	
<b>7</b>	Investment expenses	<b>7</b>	
<b>8</b>	Prior period adjustments	<b>8</b>	(13)
<b>9</b>	Other changes in net assets or fund balances (explain on Schedule O)	<b>9</b>	
<b>10</b>	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 32, column (B))	<b>10</b>	87,610

**Part XII Financial Statements and Reporting**

Check if Schedule O contains a response or note to any line in this Part XII

- 1** Accounting method used to prepare the Form 990:  Cash  Accrual  Other \_\_\_\_\_  
If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule O.
- 2a** Were the organization's financial statements compiled or reviewed by an independent accountant? . . .  
If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed on a separate basis, consolidated basis, or both:  
 Separate basis  Consolidated basis  Both consolidated and separate basis
- b** Were the organization's financial statements audited by an independent accountant? . . . . .  
If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separate basis, consolidated basis, or both:  
 Separate basis  Consolidated basis  Both consolidated and separate basis
- c** If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of the audit, review, or compilation of its financial statements and selection of an independent accountant? . . .  
If the organization changed either its oversight process or selection process during the tax year, explain on Schedule O.
- 3a** As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Single Audit Act and OMB Circular A-133? . . . . .
- b** If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the required audit or audits, explain why on Schedule O and describe any steps taken to undergo such audits .

	Yes	No
<b>2a</b>	✓	
<b>2b</b>		✓
<b>2c</b>	✓	
<b>3a</b>		✓
<b>3b</b>		

**SCHEDULE A**  
**(Form 990 or 990-EZ)**

Department of the Treasury  
Internal Revenue Service

**Public Charity Status and Public Support**

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

▶ Attach to Form 990 or Form 990-EZ.

▶ Go to [www.irs.gov/Form990](http://www.irs.gov/Form990) for instructions and the latest information.

OMB No. 1545-0047

**2019**

**Open to Public Inspection**

Name of the organization

Mathematical Staircase, Inc.

Employer identification number

46-1813949

**Part I Reason for Public Charity Status** (All organizations must complete this part.) See instructions.

The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.)

- 1  A church, convention of churches, or association of churches described in **section 170(b)(1)(A)(i)**.
- 2  A school described in **section 170(b)(1)(A)(ii)**. (Attach Schedule E (Form 990 or 990-EZ).)
- 3  A hospital or a cooperative hospital service organization described in **section 170(b)(1)(A)(iii)**.
- 4  A medical research organization operated in conjunction with a hospital described in **section 170(b)(1)(A)(iii)**. Enter the hospital's name, city, and state: \_\_\_\_\_
- 5  An organization operated for the benefit of a college or university owned or operated by a governmental unit described in **section 170(b)(1)(A)(iv)**. (Complete Part II.)
- 6  A federal, state, or local government or governmental unit described in **section 170(b)(1)(A)(v)**.
- 7  An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 8  A community trust described in **section 170(b)(1)(A)(vi)**. (Complete Part II.)
- 9  An agricultural research organization described in **section 170(b)(1)(A)(ix)** operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or university: \_\_\_\_\_
- 10  An organization that normally receives: (1) more than 33<sup>1</sup>/<sub>3</sub>% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions—subject to certain exceptions, and (2) no more than 33<sup>1</sup>/<sub>3</sub>% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See **section 509(a)(2)**. (Complete Part III.)
- 11  An organization organized and operated exclusively to test for public safety. See **section 509(a)(4)**.
- 12  An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in **section 509(a)(1)** or **section 509(a)(2)**. See **section 509(a)(3)**. Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g.
  - a  **Type I.** A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. **You must complete Part IV, Sections A and B.**
  - b  **Type II.** A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). **You must complete Part IV, Sections A and C.**
  - c  **Type III functionally integrated.** A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). **You must complete Part IV, Sections A, D, and E.**
  - d  **Type III non-functionally integrated.** A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). **You must complete Part IV, Sections A and D, and Part V.**
  - e  Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization.
  - f Enter the number of supported organizations . . . . .
  - g Provide the following information about the supported organization(s).

(i) Name of supported organization	(ii) EIN	(iii) Type of organization (described on lines 1–10 above (see instructions))	(iv) Is the organization listed in your governing document?		(v) Amount of monetary support (see instructions)	(vi) Amount of other support (see instructions)
			Yes	No		
(A)						
(B)						
(C)						
(D)						
(E)						
<b>Total</b>						

Part II Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi)

(Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, please complete Part III.)

Section A. Public Support

Table with 7 columns: (a) 2015, (b) 2016, (c) 2017, (d) 2018, (e) 2019, (f) Total. Rows include: 1 Gifts, grants, contributions, and membership fees received; 2 Tax revenues levied for the organization's benefit; 3 The value of services or facilities furnished by a governmental unit; 4 Total. Add lines 1 through 3; 5 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f); 6 Public support. Subtract line 5 from line 4.

Section B. Total Support

Table with 7 columns: (a) 2015, (b) 2016, (c) 2017, (d) 2018, (e) 2019, (f) Total. Rows include: 7 Amounts from line 4; 8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources; 9 Net income from unrelated business activities, whether or not the business is regularly carried on; 10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.); 11 Total support. Add lines 7 through 10; 12 Gross receipts from related activities, etc. (see instructions); 13 First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and stop here.

Section C. Computation of Public Support Percentage

Table with 3 columns: Description, Percentage, and % symbol. Rows include: 14 Public support percentage for 2019 (line 6, column (f) divided by line 11, column (f)); 15 Public support percentage from 2018 Schedule A, Part II, line 14; 16a 33 1/3% support test—2019. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization; b 33 1/3% support test—2018. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization; 17a 10%-facts-and-circumstances test—2019. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization; b 10%-facts-and-circumstances test—2018. If the organization did not check a box on line 13, 16a, 16b, or 17a, and line 15 is 10% or more, and if the organization meets the "facts-and-circumstances" test, check this box and stop here. Explain in Part VI how the organization meets the "facts-and-circumstances" test. The organization qualifies as a publicly supported organization; 18 Private foundation. If the organization did not check a box on line 13, 16a, 16b, 17a, or 17b, check this box and see instructions.

**Part III Support Schedule for Organizations Described in Section 509(a)(2)**

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to qualify under the tests listed below, please complete Part II.)

**Section A. Public Support**

Calendar year (or fiscal year beginning in) ►	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
<b>1</b> Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")	12,412	21,301	21,735	17,204	68,530	140,182
<b>2</b> Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose . . . . .	166,923	209,088	254,544	304,479	276,403	1,211,437
<b>3</b> Gross receipts from activities that are not an unrelated trade or business under section 513	0	0	0	0	0	0
<b>4</b> Tax revenues levied for the organization's benefit and either paid to or expended on its behalf . . . . .	0	0	0	0	0	0
<b>5</b> The value of services or facilities furnished by a governmental unit to the organization without charge . . . . .	0	0	0	0	0	0
<b>6 Total.</b> Add lines 1 through 5 . . . . .	179,335	230,389	276,279	321,683	344,933	1,352,619
<b>7a</b> Amounts included on lines 1, 2, and 3 received from disqualified persons . . . . .	1,000	1,500	1,000	1,500	2,000	7,000
<b>b</b> Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the amount on line 13 for the year . . . . .	0	0	0	0	0	0
<b>c</b> Add lines 7a and 7b . . . . .	1,000	1,500	1,000	1,500	2,000	7,000
<b>8 Public support.</b> (Subtract line 7c from line 6.) . . . . .						1,345,619

**Section B. Total Support**

Calendar year (or fiscal year beginning in) ►	(a) 2015	(b) 2016	(c) 2017	(d) 2018	(e) 2019	(f) Total
<b>9</b> Amounts from line 6 . . . . .	179,335	230,839	276,279	321,683	344,933	1,352,619
<b>10a</b> Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources . . . . .	0	0	0	0	0	0
<b>b</b> Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975 . . . . .	0	0	0	0	0	0
<b>c</b> Add lines 10a and 10b . . . . .	0	0	0	0	0	0
<b>11</b> Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on . . . . .	0	0	0	0	0	0
<b>12</b> Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.) . . . . .	0	0	0	0	0	0
<b>13 Total support.</b> (Add lines 9, 10c, 11, and 12.) . . . . .	179,335	230,839	276,279	321,683	344,933	1,352,619

**14 First five years.** If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501(c)(3) organization, check this box and **stop here** . . . . .

**Section C. Computation of Public Support Percentage**

<b>15</b> Public support percentage for 2019 (line 8, column (f), divided by line 13, column (f)) . . . . .	<b>15</b>	99 %
<b>16</b> Public support percentage from 2018 Schedule A, Part III, line 15 . . . . .	<b>16</b>	99 %

**Section D. Computation of Investment Income Percentage**

<b>17</b> Investment income percentage for <b>2019</b> (line 10c, column (f), divided by line 13, column (f)) . . . . .	<b>17</b>	0 %
<b>18</b> Investment income percentage from <b>2018</b> Schedule A, Part III, line 17 . . . . .	<b>18</b>	0 %

**19a 33 1/3% support tests—2019.** If the organization did not check the box on line 14, and line 15 is more than 33 1/3%, and line 17 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization . . . . .

**b 33 1/3% support tests—2018.** If the organization did not check a box on line 14 or line 19a, and line 16 is more than 33 1/3%, and line 18 is not more than 33 1/3%, check this box and **stop here**. The organization qualifies as a publicly supported organization . . . . .

**20 Private foundation.** If the organization did not check a box on line 14, 19a, or 19b, check this box and see instructions . . . . .

**Part IV Supporting Organizations**

(Complete only if you checked a box in line 12 on Part I. If you checked 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete Sections A, D, and E. If you checked 12d of Part I, complete Sections A and D, and complete Part V.)

**Section A. All Supporting Organizations**

	Yes	No
<b>1</b> Are all of the organization's supported organizations listed by name in the organization's governing documents? <i>If "No," describe in Part VI how the supported organizations are designated. If designated by class or purpose, describe the designation. If historic and continuing relationship, explain.</i>		
<b>2</b> Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? <i>If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).</i>		
<b>3a</b> Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? <i>If "Yes," answer (b) and (c) below.</i>		
<b>b</b> Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? <i>If "Yes," describe in Part VI when and how the organization made the determination.</i>		
<b>c</b> Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? <i>If "Yes," explain in Part VI what controls the organization put in place to ensure such use.</i>		
<b>4a</b> Was any supported organization not organized in the United States ("foreign supported organization")? <i>If "Yes," and if you checked 12a or 12b in Part I, answer (b) and (c) below.</i>		
<b>b</b> Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? <i>If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.</i>		
<b>c</b> Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? <i>If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) purposes.</i>		
<b>5a</b> Did the organization add, substitute, or remove any supported organizations during the tax year? <i>If "Yes," answer (b) and (c) below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).</i>		
<b>b Type I or Type II only.</b> Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
<b>c Substitutions only.</b> Was the substitution the result of an event beyond the organization's control?		
<b>6</b> Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? <i>If "Yes," provide detail in Part VI.</i>		
<b>7</b> Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (as defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
<b>8</b> Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? <i>If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).</i>		
<b>9a</b> Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? <i>If "Yes," provide detail in Part VI.</i>		
<b>b</b> Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? <i>If "Yes," provide detail in Part VI.</i>		
<b>c</b> Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? <i>If "Yes," provide detail in Part VI.</i>		
<b>10a</b> Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? <i>If "Yes," answer 10b below.</i>		
<b>b</b> Did the organization have any excess business holdings in the tax year? <i>(Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)</i>		



**Part IV Supporting Organizations** *(continued)*

		Yes	No
<b>11</b>	Has the organization accepted a gift or contribution from any of the following persons?		
<b>a</b>	A person who directly or indirectly controls, either alone or together with persons described in (b) and (c) below, the governing body of a supported organization?		
<b>b</b>	A family member of a person described in (a) above?		
<b>c</b>	A 35% controlled entity of a person described in (a) or (b) above? <i>If "Yes" to a, b, or c, provide detail in Part VI.</i>		

**Section B. Type I Supporting Organizations**

		Yes	No
<b>1</b>	Did the directors, trustees, or membership of one or more supported organizations have the power to regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the tax year? <i>If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or controlled the organization's activities. If the organization had more than one supported organization, describe how the powers to appoint and/or remove directors or trustees were allocated among the supported organizations and what conditions or restrictions, if any, applied to such powers during the tax year.</i>		
<b>2</b>	Did the organization operate for the benefit of any supported organization other than the supported organization(s) that operated, supervised, or controlled the supporting organization? <i>If "Yes," explain in Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated, supervised, or controlled the supporting organization.</i>		

**Section C. Type II Supporting Organizations**

		Yes	No
<b>1</b>	Were a majority of the organization's directors or trustees during the tax year also a majority of the directors or trustees of each of the organization's supported organization(s)? <i>If "No," describe in Part VI how control or management of the supporting organization was vested in the same persons that controlled or managed the supported organization(s).</i>		

**Section D. All Type III Supporting Organizations**

		Yes	No
<b>1</b>	Did the organization provide to each of its supported organizations, by the last day of the fifth month of the organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the organization's governing documents in effect on the date of notification, to the extent not previously provided?		
<b>2</b>	Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported organization(s) or (ii) serving on the governing body of a supported organization? <i>If "No," explain in Part VI how the organization maintained a close and continuous working relationship with the supported organization(s).</i>		
<b>3</b>	By reason of the relationship described in (2), did the organization's supported organizations have a significant voice in the organization's investment policies and in directing the use of the organization's income or assets at all times during the tax year? <i>If "Yes," describe in Part VI the role the organization's supported organizations played in this regard.</i>		

**Section E. Type III Functionally Integrated Supporting Organizations**

<b>1</b>	<i>Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions).</i>		
<b>a</b>	<input type="checkbox"/> The organization satisfied the Activities Test. <i>Complete line 2 below.</i>		
<b>b</b>	<input type="checkbox"/> The organization is the parent of each of its supported organizations. <i>Complete line 3 below.</i>		
<b>c</b>	<input type="checkbox"/> The organization supported a governmental entity. <i>Describe in Part VI how you supported a government entity (see instructions).</i>		
<b>2</b>	<b>Activities Test. Answer (a) and (b) below.</b>		
<b>a</b>			<b>Yes</b>
<b>a</b>	Did substantially all of the organization's activities during the tax year directly further the exempt purposes of the supported organization(s) to which the organization was responsive? <i>If "Yes," then in Part VI identify those supported organizations and explain how these activities directly furthered their exempt purposes, how the organization was responsive to those supported organizations, and how the organization determined that these activities constituted substantially all of its activities.</i>		
<b>b</b>			<b>No</b>
<b>b</b>	Did the activities described in (a) constitute activities that, but for the organization's involvement, one or more of the organization's supported organization(s) would have been engaged in? <i>If "Yes," explain in Part VI the reasons for the organization's position that its supported organization(s) would have engaged in these activities but for the organization's involvement.</i>		
<b>3</b>	<b>Parent of Supported Organizations. Answer (a) and (b) below.</b>		
<b>a</b>			<b>Yes</b>
<b>a</b>	Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or trustees of each of the supported organizations? <i>Provide details in Part VI.</i>		
<b>b</b>			<b>No</b>
<b>b</b>	Did the organization exercise a substantial degree of direction over the policies, programs, and activities of each of its supported organizations? <i>If "Yes," describe in Part VI the role played by the organization in this regard.</i>		

**Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations**

**1**  Check here if the organization satisfied the Integral Part Test as a qualifying trust on Nov. 20, 1970 (explain in Part VI). **See instructions.** All other Type III non-functionally integrated supporting organizations must complete Sections A through E.

<b>Section A—Adjusted Net Income</b>		(A) Prior Year	(B) Current Year (optional)
<b>1</b> Net short-term capital gain	<b>1</b>		
<b>2</b> Recoveries of prior-year distributions	<b>2</b>		
<b>3</b> Other gross income (see instructions)	<b>3</b>		
<b>4</b> Add lines 1 through 3.	<b>4</b>		
<b>5</b> Depreciation and depletion	<b>5</b>		
<b>6</b> Portion of operating expenses paid or incurred for production or collection of gross income or for management, conservation, or maintenance of property held for production of income (see instructions)	<b>6</b>		
<b>7</b> Other expenses (see instructions)	<b>7</b>		
<b>8 Adjusted Net Income</b> (subtract lines 5, 6, and 7 from line 4)	<b>8</b>		
<b>Section B—Minimum Asset Amount</b>		(A) Prior Year	(B) Current Year (optional)
<b>1</b> Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):			
<b>a</b> Average monthly value of securities	<b>1a</b>		
<b>b</b> Average monthly cash balances	<b>1b</b>		
<b>c</b> Fair market value of other non-exempt-use assets	<b>1c</b>		
<b>d Total</b> (add lines 1a, 1b, and 1c)	<b>1d</b>		
<b>e Discount</b> claimed for blockage or other factors (explain in detail in <b>Part VI</b> ):			
<b>2</b> Acquisition indebtedness applicable to non-exempt-use assets	<b>2</b>		
<b>3</b> Subtract line 2 from line 1d.	<b>3</b>		
<b>4</b> Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions).	<b>4</b>		
<b>5</b> Net value of non-exempt-use assets (subtract line 4 from line 3)	<b>5</b>		
<b>6</b> Multiply line 5 by .035.	<b>6</b>		
<b>7</b> Recoveries of prior-year distributions	<b>7</b>		
<b>8 Minimum Asset Amount</b> (add line 7 to line 6)	<b>8</b>		
<b>Section C—Distributable Amount</b>			Current Year
<b>1</b> Adjusted net income for prior year (from Section A, line 8, Column A)	<b>1</b>		
<b>2</b> Enter 85% of line 1.	<b>2</b>		
<b>3</b> Minimum asset amount for prior year (from Section B, line 8, Column A)	<b>3</b>		
<b>4</b> Enter greater of line 2 or line 3.	<b>4</b>		
<b>5</b> Income tax imposed in prior year	<b>5</b>		
<b>6 Distributable Amount.</b> Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions).	<b>6</b>		
<b>7</b> <input type="checkbox"/> Check here if the current year is the organization's first as a non-functionally integrated Type III supporting organization (see instructions).			

**Part V Type III Non-Functionally Integrated 509(a)(3) Supporting Organizations** (continued)

Section D—Distributions	Current Year
1 Amounts paid to supported organizations to accomplish exempt purposes	
2 Amounts paid to perform activity that directly furthers exempt purposes of supported organizations, in excess of income from activity	
3 Administrative expenses paid to accomplish exempt purposes of supported organizations	
4 Amounts paid to acquire exempt-use assets	
5 Qualified set-aside amounts (prior IRS approval required)	
6 Other distributions (describe in <b>Part VI</b> ). See instructions.	
7 <b>Total annual distributions.</b> Add lines 1 through 6.	
8 Distributions to attentive supported organizations to which the organization is responsive (provide details in <b>Part VI</b> ). See instructions.	
9 Distributable amount for 2019 from Section C, line 6	
10 Line 8 amount divided by line 9 amount	

Section E—Distribution Allocations (see instructions)	(i) Excess Distributions	(ii) Underdistributions Pre-2019	(iii) Distributable Amount for 2019
1 Distributable amount for 2019 from Section C, line 6			
2 Underdistributions, if any, for years prior to 2019 (reasonable cause required—explain in <b>Part VI</b> ). See instructions.			
3 Excess distributions carryover, if any, to 2019			
a From 2014 . . . . .			
b From 2015 . . . . .			
c From 2016 . . . . .			
d From 2017 . . . . .			
e From 2018 . . . . .			
f <b>Total</b> of lines 3a through e			
g Applied to underdistributions of prior years			
h Applied to 2019 distributable amount			
i Carryover from 2014 not applied (see instructions)			
j Remainder. Subtract lines 3g, 3h, and 3i from 3f.			
4 Distributions for 2019 from Section D, line 7: \$			
a Applied to underdistributions of prior years			
b Applied to 2019 distributable amount			
c Remainder. Subtract lines 4a and 4b from 4.			
5 Remaining underdistributions for years prior to 2019, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, explain in <b>Part VI</b> . See instructions.			
6 Remaining underdistributions for 2019. Subtract lines 3h and 4b from line 1. For result greater than zero, explain in <b>Part VI</b> . See instructions.			
7 <b>Excess distributions carryover to 2020.</b> Add lines 3j and 4c.			
8 Breakdown of line 7:			
a Excess from 2015 . . . . .			
b Excess from 2016 . . . . .			
c Excess from 2017 . . . . .			
d Excess from 2018 . . . . .			
e Excess from 2019 . . . . .			



**SCHEDULE L**  
**(Form 990 or 990-EZ)**

**Transactions With Interested Persons**

OMB No. 1545-0047

**2019**

**Open To Public Inspection**

Department of the Treasury  
Internal Revenue Service

▶ **Complete if the organization answered "Yes" on Form 990, Part IV, line 25a, 25b, 26, 27, 28a, 28b, or 28c, or Form 990-EZ, Part V, line 38a or 40b.**  
▶ **Attach to Form 990 or Form 990-EZ.**  
▶ **Go to [www.irs.gov/Form990](http://www.irs.gov/Form990) for instructions and the latest information.**

Name of the organization <b>Mathematical Staircase, Inc.</b>	Employer identification number <b>46-1813949</b>
-----------------------------------------------------------------	-----------------------------------------------------

**Part I Excess Benefit Transactions** (section 501(c)(3), section 501(c)(4), and section 501(c)(29) organizations only).  
Complete if the organization answered "Yes" on Form 990, Part IV, line 25a or 25b, or Form 990-EZ, Part V, line 40b.

1	(a) Name of disqualified person	(b) Relationship between disqualified person and organization	(c) Description of transaction	(d) Corrected?	
				Yes	No
(1)					
(2)					
(3)					
(4)					
(5)					
(6)					

2 Enter the amount of tax incurred by the organization managers or disqualified persons during the year under section 4958 . . . . . ▶ \$ \_\_\_\_\_

3 Enter the amount of tax, if any, on line 2, above, reimbursed by the organization . . . . . ▶ \$ \_\_\_\_\_

**Part II Loans to and/or From Interested Persons.**  
Complete if the organization answered "Yes" on Form 990-EZ, Part V, line 38a or Form 990, Part IV, line 26; or if the organization reported an amount on Form 990, Part X, line 5, 6, or 22.

(a) Name of interested person	(b) Relationship with organization	(c) Purpose of loan	(d) Loan to or from the organization?		(e) Original principal amount	(f) Balance due	(g) In default?		(h) Approved by board or committee?		(i) Written agreement?	
			To	From			Yes	No	Yes	No	Yes	No
			(1)									
(2)												
(3)												
(4)												
(5)												
(6)												
(7)												
(8)												
(9)												
(10)												
<b>Total</b> . . . . . ▶						\$						

**Part III Grants or Assistance Benefiting Interested Persons.**  
Complete if the organization answered "Yes" on Form 990, Part IV, line 27.

(a) Name of interested person	(b) Relationship between interested person and the organization	(c) Amount of assistance	(d) Type of assistance	(e) Purpose of assistance
(1)				
(2)				
(3)				
(4)				
(5)				
(6)				
(7)				
(8)				
(9)				
(10)				

**Part IV Business Transactions Involving Interested Persons.**

Complete if the organization answered "Yes" on Form 990, Part IV, line 28a, 28b, or 28c.

(a) Name of interested person	(b) Relationship between interested person and the organization	(c) Amount of transaction	(d) Description of transaction	(e) Sharing of organization's revenues?	
				Yes	No
(1) sarah-marie belcastro, PhD	Family member of	29,165	See PartV		<input checked="" type="checkbox"/>
(2)	Joan Belcastro				
(3)					
(4)					
(5)					
(6)					
(7)					
(8)					
(9)					
(10)					

**Part V Supplemental Information.**

Provide additional information for responses to questions on Schedule L (see instructions).

Part IV: Line 1

sarah-marie belcastro, PhD, President and Chair of the Board, is the daughter of Joan Belcastro, Treasurer. Neither are compensated either as members of the Board of Directors or as Officers. sarah-marie belcastro was paid a total of \$29,165: \$20,285 as the employed director of the MathILy summer program, \$6,968 as an instructor in the program as an independent contractor, and \$1,912 for work relating to CFDA No. 47.049 NSF REU award DMS-1851842.

**SCHEDULE O  
(Form 990 or 990-EZ)**

Department of the Treasury  
Internal Revenue Service

**Supplemental Information to Form 990 or 990-EZ**

Complete to provide information for responses to specific questions on  
Form 990 or 990-EZ or to provide any additional information.

▶ Attach to Form 990 or 990-EZ.

▶ Go to [www.irs.gov/Form990](http://www.irs.gov/Form990) for the latest information.

OMB No. 1545-0047

**2019**

**Open to Public  
Inspection**

Name of the organization  
Mathematical Staircase, Inc.

Employer identification number  
46-1813949

Part III:

Line 2: As the result of an NSF grant, CFDA No. 47.049 NSF REU 2019 award, DMS-1851842, a third program was added by the organization

as is described in Part III, Line 4C.

Part V:

Line 1a: The organization files its forms 1096 through a service which files the forms 1099 electronically. The organization employs 4 people

and there are 20 independent contractors.

Line 2a: The organization files its forms W-2 electronically.

Part VI:

Line 1b: All members of the Board serve without compensation. However, sarah-marie belcastro, PhD, President and Chair of the Board,

serves as the director of the MathLly summer program as well as serving a lead instructor for the program.

Line 2: Joan Belcastro, Treasurer, is the mother of sarah-marie belcastro, PhD, President and Chair of the Board.

Line 9: The following Board members cannot be reached at the organization's address:

Hannah Alpert, PhD, Clerk and Secretary of the Board: 504-550 W 12th Ave., Vancouver, BC V5Z-1M3, Canada

Joan Belcastro, Treasurer, 285 N. Grandview Ave., Dubuque, IA 52001

Joshua Greene, PhD, Director, 1311 Guerrero St. #2, San Francisco, CA 94110

Emily Peters, PhD, Director, 646 Judson Ave., Evanston, IL 60202

Line 11B: The Treasurer prepares form 990 and accompanying schedules which are reviewed by the President and Chair of the Board and

the Clerk and Secretary of the Board.

Line 12c: All members of the Board are aware of the family relationship between the President and Chair of the Board and the Treasurer.

These two individuals must recuse themselves from discussion and voting on issues affecting the one or the other. Such discussions

take place without their presence.

Line 19: The organization's articles of incorporation are available for public view at the website of the Secretary of State of the

Commonwealth of Massachusetts. The Bylaws of the organization are available on request from the Clerk of the corporation. The

Bylaws include an extensive conflict-of-interest policy. Financial statements are available on the organization's website as well as on

Guidestar as are its tax filings.

Name of the organization <b>Mathematical Staircase</b>	<b>Employer identification number</b> 46-1813949
-----------------------------------------------------------	-----------------------------------------------------

Line 20: The organization's books and records are held by sarah-marie belcastro, PhD, 231 W. Franklin St., Holyoke, MA 01040  
 tel: 413-341-1373. The Treasurer guides accounting record keeping, prepares the annual financial statements, and prepares the  
 annual federal tax filings: Joan Belcastro, 285 N. Grandview Ave., Dubuque, IA 52001 tel: 563-588-1044. The Clerk is  
 responsible for any corporate filings for the Commonwealth of Massachusetts, is responsible for the incorporation documents,  
 and keeps the minutes of the meetings of the Board of Directors: Hannah Alpert, 504-550 W 12th Ave, Vancouver, BC V5Z-1M3, Canada,  
 tel: 720-771-6428.

Part Vii:

Line 1a: The \$29,164 paid to sarah-marie belcastro was not for her position as President and Chair of the Board. As director of the  
 MathLy summer program she was paid \$20,285; and, additionally as an instructor in the program, she was paid \$6,968;  
 for work done in connection with the NSF grant, she was paid \$1,912.

Part IX:

Line 5: See explanation for Part VII, Line 1a, for a breakdown of this amount.