

Return of Organization Exempt From Income Tax

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

Do not enter social security numbers on this form as it may be made public. Information about Form 990 and its instructions is at www.irs.gov/form990.

Open to Public Inspection

Department of the Treasury Internal Revenue Service

Header section A-M containing organization details: Name (Mathematical Staircase, Inc.), Employer ID (46-1813949), Telephone (720-771-6428), Gross receipts (\$230,389), Website (www.mathstaircase.org), and Form of organization (Corporation).

Part I Summary

Summary table with columns for Activities & Governance, Revenue, Expenses, and Net Assets or Fund Balances. Rows include mission statement, member counts, revenue breakdown (Total: 230,389), expenses breakdown (Total: 213,091), and net assets (Total: 90,865).

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.

Signature block area with fields for Signature of officer, Date, and Type or print name and title.

Paid Preparer Use Only section with fields for Preparer's name, signature, date, firm's name, address, EIN, and phone number.

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 a residential summer program 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 \$ **140,514** including grants of \$ **0**) (Revenue \$ **142,437**)
MathLy: A residential summer program for mathematically gifted high-school students. Number of students enrolled was 36 in a 5-week program of courses, presentations and leisure activities. Six trainees (staff members) also benefitted.

4b (Code:) (Expenses \$ **71,795** including grants of \$ **0**) (Revenue \$ **66,651**)
MathLy-Er: Similar to MathLy with slightly younger students and who are earlier in their mathematical development. Number of students enrolled was 17 in a 5-week program of courses, presentations and leisure activities. Three trainees (staff members) also benefitted.

4c (Code:) (Expenses \$ including grants of \$) (Revenue \$)

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

4e Total program service expenses **213,309**

Part IV Checklist of Required Schedules

		Yes	No
1	Is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)? <i>If "Yes," complete Schedule A</i>	✓	
2	Is the organization required to complete <i>Schedule B, Schedule of Contributors</i> (see instructions)?		✓
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for public office? <i>If "Yes," complete Schedule C, Part I</i>		✓
4	Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect during the tax year? <i>If "Yes," complete Schedule C, Part II</i>		✓
5	Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or similar amounts as defined in Revenue Procedure 98-19? <i>If "Yes," complete Schedule C, Part III</i>		✓
6	Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to provide advice on the distribution or investment of amounts in such funds or accounts? <i>If "Yes," complete Schedule D, Part I</i>		✓
7	Did the organization receive or hold a conservation easement, including easements to preserve open space, the environment, historic land areas, or historic structures? <i>If "Yes," complete Schedule D, Part II</i>		✓
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? <i>If "Yes," complete Schedule D, Part III</i>		✓
9	Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services? <i>If "Yes," complete Schedule D, Part IV</i>		✓
10	Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent endowments, or quasi-endowments? <i>If "Yes," complete Schedule D, Part V</i>		✓
11	If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VII, VIII, IX, or X as applicable.		
a	Did the organization report an amount for land, buildings, and equipment in Part X, line 10? <i>If "Yes," complete Schedule D, Part VI</i>		✓
b	Did the organization report an amount for investments—other securities in Part X, line 12 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VII</i>		✓
c	Did the organization report an amount for investments—program related in Part X, line 13 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part VIII</i>		✓
d	Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in Part X, line 16? <i>If "Yes," complete Schedule D, Part IX</i>		✓
e	Did the organization report an amount for other liabilities in Part X, line 25? <i>If "Yes," complete Schedule D, Part X</i>		✓
f	Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? <i>If "Yes," complete Schedule D, Part X</i>		✓
12a	Did the organization obtain separate, independent audited financial statements for the tax year? <i>If "Yes," complete Schedule D, Parts XI and XII</i>		✓
b	Was the organization included in consolidated, independent audited financial statements for the tax year? <i>If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional</i>		✓
13	Is the organization a school described in section 170(b)(1)(A)(ii)? <i>If "Yes," complete Schedule E</i>		✓
14a	Did the organization maintain an office, employees, or agents outside of the United States?		✓
b	Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business, investment, and program service activities outside of the United States, or aggregate foreign investments valued at \$100,000 or more? <i>If "Yes," complete Schedule F, Parts I and IV.</i>		✓
15	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any foreign organization? <i>If "Yes," complete Schedule F, Parts II and IV</i>		✓
16	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to or for foreign individuals? <i>If "Yes," complete Schedule F, Parts III and IV.</i>		✓
17	Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX, column (A), lines 6 and 11e? <i>If "Yes," complete Schedule G, Part I (see instructions)</i>		✓
18	Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines 1c and 8a? <i>If "Yes," complete Schedule G, Part II</i>		✓
19	Did the organization report more than \$15,000 of gross income from gaming activities on Part VIII, line 9a? <i>If "Yes," complete Schedule G, Part III</i>		✓

Part IV Checklist of Required Schedules *(continued)*

		Yes	No
20 a	Did the organization operate one or more hospital facilities? <i>If "Yes," complete Schedule H</i>		<input checked="" type="checkbox"/>
b	<i>If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?</i>		
21	Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or domestic government on Part IX, column (A), line 1? <i>If "Yes," complete Schedule I, Parts I and II</i>		<input checked="" type="checkbox"/>
22	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>		<input checked="" type="checkbox"/>
23	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>		<input checked="" type="checkbox"/>
24a	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>		<input checked="" type="checkbox"/>
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?		<input checked="" type="checkbox"/>
c	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease any tax-exempt bonds?		<input checked="" type="checkbox"/>
d	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?		<input checked="" type="checkbox"/>
25a	Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. 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>		<input checked="" type="checkbox"/>
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>		<input checked="" type="checkbox"/>
26	Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? <i>If "Yes," complete Schedule L, Part II</i>		<input checked="" type="checkbox"/>
27	Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member of any of these persons? <i>If "Yes," complete Schedule L, Part III</i>		<input checked="" type="checkbox"/>
28	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):		
a	A current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>		<input checked="" type="checkbox"/>
b	A family member of a current or former officer, director, trustee, or key employee? <i>If "Yes," complete Schedule L, Part IV</i>	<input checked="" type="checkbox"/>	
c	An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer, director, trustee, or direct or indirect owner? <i>If "Yes," complete Schedule L, Part IV</i>		<input checked="" type="checkbox"/>
29	Did the organization receive more than \$25,000 in non-cash contributions? <i>If "Yes," complete Schedule M</i>		<input checked="" type="checkbox"/>
30	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation contributions? <i>If "Yes," complete Schedule M</i>		<input checked="" type="checkbox"/>
31	Did the organization liquidate, terminate, or dissolve and cease operations? <i>If "Yes," complete Schedule N, Part I</i>		<input checked="" type="checkbox"/>
32	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>		<input checked="" type="checkbox"/>
33	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>		<input checked="" type="checkbox"/>
34	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>		<input checked="" type="checkbox"/>
35a	Did the organization have a controlled entity within the meaning of section 512(b)(13)?		<input checked="" type="checkbox"/>
b	<i>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)? If "Yes," complete Schedule R, Part V, line 2</i>		
36	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization? <i>If "Yes," complete Schedule R, Part V, line 2</i>		<input checked="" type="checkbox"/>
37	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>		<input checked="" type="checkbox"/>
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19? Note. All Form 990 filers are required to complete Schedule O.	<input checked="" type="checkbox"/>	

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 [X]

Table with columns for line numbers (1a-14b), descriptions, and Yes/No checkboxes. Includes sections for Form 1096, Form W-2G, Form W-3, Form 990-T, Form 8886-T, Form 8282, Form 8899, Form 1098-C, Form 4966, Form 501(c)(7), Form 501(c)(12), Form 4947(a)(1), and Form 501(c)(29).

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 in 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

		Yes	No
1a	Enter the number of voting members of the governing body at the end of the tax year 1a 5 If there are material differences in voting rights among members of the governing body, or if the governing body delegated broad authority to an executive committee or similar committee, explain in Schedule O.		
b	Enter the number of voting members included in line 1a, above, who are independent 1b 3		
2	Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other officer, director, trustee, or key employee?	<input checked="" type="checkbox"/>	
3	Did the organization delegate control over management duties customarily performed by or under the direct supervision of officers, directors, or trustees, or key employees to a management company or other person?		<input checked="" type="checkbox"/>
4	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?		<input checked="" type="checkbox"/>
5	Did the organization become aware during the year of a significant diversion of the organization's assets?		<input checked="" type="checkbox"/>
6	Did the organization have members or stockholders?		<input checked="" type="checkbox"/>
7a	Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or more members of the governing body?		<input checked="" type="checkbox"/>
b	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or persons other than the governing body?		<input checked="" type="checkbox"/>
8	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:		
a	The governing body?	<input checked="" type="checkbox"/>	
b	Each committee with authority to act on behalf of the governing body?	<input checked="" type="checkbox"/>	
9	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the organization's mailing address? If "Yes," provide the names and addresses in Schedule O	<input checked="" type="checkbox"/>	

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

		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?		<input checked="" type="checkbox"/>
b	If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates, and branches to ensure their operations are consistent with the organization's exempt purposes?		
11a	Has the organization provided a complete copy of this Form 990 to all members of its governing body before filing the form?		<input checked="" type="checkbox"/>
b	Describe in Schedule O the process, if any, used by the organization to review this Form 990.		
12a	Did the organization have a written conflict of interest policy? If "No," go to line 13	<input checked="" type="checkbox"/>	
b	Were officers, directors, or trustees, and key employees required to disclose annually interests that could give rise to conflicts?	<input checked="" type="checkbox"/>	
c	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe in Schedule O how this was done	<input checked="" type="checkbox"/>	
13	Did the organization have a written whistleblower policy?	<input checked="" type="checkbox"/>	
14	Did the organization have a written document retention and destruction policy?	<input checked="" type="checkbox"/>	
15	Did the process for determining compensation of the following persons include a review and approval by independent persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		
a	The organization's CEO, Executive Director, or top management official		<input checked="" type="checkbox"/>
b	Other officers or key employees of the organization		<input checked="" type="checkbox"/>
	If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).		
16a	Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a taxable entity during the year?		<input checked="" type="checkbox"/>
b	If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's exempt status with respect to such arrangements?		

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 (or 1024 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.
 Own website Another's website Upon request Other (explain in Schedule O)
- 19** Describe in 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, MA 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.

List persons in the following order: individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

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	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				20,485	0	0
(2) Hannah Alpert, PhD, Clerk and Secretary of the Board	2	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				6,665	0	0
(3) Joan Belcastro, Treasurer	2	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				0	0	0
(4) Joshua Greene, PhD, Director	.5	<input checked="" type="checkbox"/>						0	0	0
(5) Emily Peters, PhD, Director	.5	<input checked="" type="checkbox"/>						0	0	0
(6)										
(7)										
(8)										
(9)										
(10)										
(11)										
(12)										
(13)										
(14)										

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)										
1b Sub-total							27,150	0	0	
c Total from continuation sheets to Part VII, Section A										
d Total (add lines 1b and 1c)							27,150	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
3 Did the organization list any former officer, director, or trustee, key employee, or highest compensated employee on line 1a? <i>If "Yes," complete Schedule J for such individual</i>		✓
4 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>		✓
5 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
Contributions, Gifts, Grants and Other Similar Amounts	1a	Federated campaigns	1a 0				
	b	Membership dues	1b 0				
	c	Fundraising events	1c 0				
	d	Related organizations	1d 0				
	e	Government grants (contributions)	1e 0				
	f	All other contributions, gifts, grants, and similar amounts not included above	1f 21,301				
	g	Noncash contributions included in lines 1a-1f: \$	0				
	h	Total. Add lines 1a-1f ▶		21,301			
	Program Service Revenue	2a	MathLy Student Fees	Business Code 611699	142,437	142,437	0
b		MathLy-Er Student Fees	611699	66,651	66,651	0	0
c		-----					
d		-----					
e		-----					
f		All other program service revenue .					
g		Total. Add lines 2a-2f ▶		209,088			
Other Revenue	3	Investment income (including dividends, interest, and other similar amounts) ▶		0			
	4	Income from investment of tax-exempt bond proceeds ▶		0			
	5	Royalties ▶		0			
	6a	Gross rents	(i) Real				
			(ii) Personal				
			b Less: rental expenses				
			c Rental income or (loss)				
	d	Net rental income or (loss) ▶		0			
	7a	Gross amount from sales of assets other than inventory	(i) Securities				
			(ii) Other				
			b Less: cost or other basis and sales expenses				
			c Gain or (loss)				
	d	Net gain or (loss) ▶		0			
	8a	Gross income from fundraising events (not including \$ of contributions reported on line 1c). See Part IV, line 18 a					
			b Less: direct expenses b				
			c Net income or (loss) from fundraising events . . ▶		0		
	9a	Gross income from gaming activities. See Part IV, line 19 a					
b Less: direct expenses b							
c Net income or (loss) from gaming activities . . ▶				0			
10a	Gross sales of inventory, less returns and allowances a						
		b Less: cost of goods sold b					
		c Net income or (loss) from sales of inventory . . ▶		0			
Miscellaneous Revenue		Business Code					
11a	-----						
b	-----						
c	-----						
d	All other revenue						
e	Total. Add lines 11a-11d ▶		0				
12	Total revenue. See instructions. ▶		230,389	209,088			

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
1 Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21				
2 Grants and other assistance to domestic individuals. See Part IV, line 22				
3 Grants and other assistance to foreign organizations, foreign governments, and foreign individuals. See Part IV, lines 15 and 16				
4 Benefits paid to or for members				
5 Compensation of current officers, directors, trustees, and key employees	27,150	27,150		
6 Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B)				
7 Other salaries and wages				
8 Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions)				
9 Other employee benefits				
10 Payroll taxes				
11 Fees for services (non-employees):				
a Management				
b Legal				
c Accounting				
d Lobbying				
e Professional fundraising services. See Part IV, line 17				
f Investment management fees				
g Other. (If line 11g amount exceeds 10% of line 25, column (A) amount, list line 11g expenses on Schedule O.)				
12 Advertising and promotion	645	645		
13 Office expenses	4,802	4,021	781	
14 Information technology				
15 Royalties				
16 Occupancy				
17 Travel	5,151	5,151		
18 Payments of travel or entertainment expenses for any federal, state, or local public officials				
19 Conferences, conventions, and meetings				
20 Interest				
21 Payments to affiliates				
22 Depreciation, depletion, and amortization				
23 Insurance	3,184	3,184		
24 Other expenses. Itemize expenses not covered above (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.)				
a Facilities	131,916	131,916		
b Contracted Services	39,551	39,551		
c Background checks	660	660		
d				
e All other expenses Miscellaneous	32	32		
25 Total functional expenses. Add lines 1 through 24e	213,091	212,310	781	
26 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
Assets	1 Cash—non-interest-bearing	73,550	1	90,865
	2 Savings and temporary cash investments		2	
	3 Pledges and grants receivable, net		3	
	4 Accounts receivable, net		4	
	5 Loans and other receivables from current and former officers, directors, trustees, key employees, and highest compensated employees. Complete Part II of Schedule L		5	
	6 Loans and other receivables from other disqualified persons (as defined under section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing employers and sponsoring organizations of section 501(c)(9) voluntary employees' beneficiary organizations (see instructions). Complete Part II of Schedule L		6	
	7 Notes and loans receivable, net		7	
	8 Inventories for sale or use		8	
	9 Prepaid expenses and deferred charges		9	
	10a Land, buildings, and equipment: cost or other basis. Complete Part VI of Schedule D	10a		
	b Less: accumulated depreciation	10b		10c
	11 Investments—publicly traded securities		11	
	12 Investments—other securities. See Part IV, line 11		12	
	13 Investments—program-related. See Part IV, line 11		13	
	14 Intangible assets		14	
	15 Other assets. See Part IV, line 11		15	
16 Total assets. Add lines 1 through 15 (must equal line 34)		73,550	16	90,865
Liabilities	17 Accounts payable and accrued expenses		17	
	18 Grants payable		18	
	19 Deferred revenue		19	
	20 Tax-exempt bond liabilities		20	
	21 Escrow or custodial account liability. Complete Part IV of Schedule D		21	
	22 Loans and other payables to current and former officers, directors, trustees, key employees, highest compensated employees, and disqualified persons. Complete Part II of Schedule L		22	
	23 Secured mortgages and notes payable to unrelated third parties		23	
	24 Unsecured notes and loans payable to unrelated third parties		24	
	25 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		25	
	26 Total liabilities. Add lines 17 through 25		0	26
Net Assets or Fund Balances	Organizations that follow SFAS 117 (ASC 958), check here <input checked="" type="checkbox"/> and complete lines 27 through 29, and lines 33 and 34.			
	27 Unrestricted net assets	73,550	27	90,865
	28 Temporarily restricted net assets		28	
	29 Permanently restricted net assets		29	
	Organizations that do not follow SFAS 117 (ASC 958), check here <input type="checkbox"/> and complete lines 30 through 34.			
	30 Capital stock or trust principal, or current funds		30	
	31 Paid-in or capital surplus, or land, building, or equipment fund		31	
	32 Retained earnings, endowment, accumulated income, or other funds		32	
	33 Total net assets or fund balances	73,550	33	90,865
34 Total liabilities and net assets/fund balances	73,550	34	90,865	

Part XI Reconciliation of Net Assets

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

1	Total revenue (must equal Part VIII, column (A), line 12)	1	230,389
2	Total expenses (must equal Part IX, column (A), line 25)	2	213,091
3	Revenue less expenses. Subtract line 2 from line 1	3	17,298
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	4	73,550
5	Net unrealized gains (losses) on investments	5	
6	Donated services and use of facilities	6	
7	Investment expenses	7	
8	Prior period adjustments	8	16
9	Other changes in net assets or fund balances (explain in Schedule O)	9	
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 33, column (B))	10	90,865

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 in 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 in Schedule O and describe any steps taken to undergo such audits.

	Yes	No
2a	<input checked="" type="checkbox"/>	
2b		<input checked="" type="checkbox"/>
2c		<input checked="" type="checkbox"/>
3a		<input checked="" type="checkbox"/>
3b		

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.**

▶ **Information about Schedule A (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.**

OMB No. 1545-0047

2016

Open to Public Inspection

Name of the organization Mathematical Staircase, Inc.	Employer identification number 46-1813949
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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 33¹/₃% 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 33¹/₃% 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)						
Total						

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

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")						
2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf						
3 The value of services or facilities furnished by a governmental unit to the organization without charge						
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

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
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)					12	
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						<input type="checkbox"/>

Section C. Computation of Public Support Percentage

14 Public support percentage for 2016 (line 6, column (f) divided by line 11, column (f))	14	%
15 Public support percentage from 2015 Schedule A, Part II, line 14	15	%
16a 33 1/3% support test—2016. 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		<input type="checkbox"/>
b 33 1/3% support test—2015. 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		<input type="checkbox"/>
17a 10%-facts-and-circumstances test—2016. 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		<input type="checkbox"/>
b 10%-facts-and-circumstances test—2015. 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		<input type="checkbox"/>
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		<input type="checkbox"/>

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) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.")		16,200	14,789	12,412	21,301	64,702
2 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		74,995	105,064	166,923	209,088	556,070
3 Gross receipts from activities that are not an unrelated trade or business under section 513		0	0	0	0	0
4 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf		0	0	0	0	0
5 The value of services or facilities furnished by a governmental unit to the organization without charge		0	0	0	0	0
6 Total. Add lines 1 through 5		91,195	119,853	179,335	230,389	620,772
7a Amounts included on lines 1, 2, and 3 received from disqualified persons		12,000	1,000	1,000	1,500	15,500
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
c Add lines 7a and 7b		12,000	1,000	1,000	1,500	15,500
8 Public support. (Subtract line 7c from line 6.)						605,272

Section B. Total Support

Calendar year (or fiscal year beginning in) ►	(a) 2012	(b) 2013	(c) 2014	(d) 2015	(e) 2016	(f) Total
9 Amounts from line 6		91,195	119,853	179,335	230,389	620,772
10a Gross income from interest, dividends, payments received on securities loans, rents, royalties and income from similar sources		0	0	0	0	0
b Unrelated business taxable income (less section 511 taxes) from businesses acquired after June 30, 1975		0	0	0	0	0
c Add lines 10a and 10b		0	0	0	0	0
11 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
12 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.)		0	0	0	0	0
13 Total support. (Add lines 9, 10c, 11, and 12.)		91,195	119,853	179,335	230,389	620,772

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

15 Public support percentage for 2016 (line 8, column (f) divided by line 13, column (f))	15	%
16 Public support percentage from 2015 Schedule A, Part III, line 15	16	%

Section D. Computation of Investment Income Percentage

17 Investment income percentage for 2016 (line 10c, column (f) divided by line 13, column (f))	17	%
18 Investment income percentage from 2015 Schedule A, Part III, line 17	18	%

19a 33 1/3% support tests—2016. 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—2015. 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
1 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>		
2 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>		
3a 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 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>		
c 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>		
4a 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 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>		
c 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>		
5a 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 Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?		
c Substitutions only. Was the substitution the result of an event beyond the organization's control?		
6 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>		
7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (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>		
8 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>		
9a 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 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>		
c 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>		
10a 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 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
11	Has the organization accepted a gift or contribution from any of the following persons?		
a	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?		
11a			
b	A family member of a person described in (a) above?		
11b			
c	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>		
11c			

Section B. Type I Supporting Organizations

		Yes	No
1	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>		
1			
2	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>		
2			

Section C. Type II Supporting Organizations

		Yes	No
1	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>		
1			

Section D. All Type III Supporting Organizations

		Yes	No
1	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?		
1			
2	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>		
2			
3	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>		
3			

Section E. Type III Functionally Integrated Supporting Organizations

1	<i>Check the box next to the method that the organization used to satisfy the Integral Part Test during the year (see instructions).</i>		
a	<input type="checkbox"/> The organization satisfied the Activities Test. <i>Complete line 2 below.</i>		
b	<input type="checkbox"/> The organization is the parent of each of its supported organizations. <i>Complete line 3 below.</i>		
c	<input type="checkbox"/> The organization supported a governmental entity. <i>Describe in Part VI how you supported a government entity (see instructions).</i>		
2	Activities Test. Answer (a) and (b) below.		
a	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>		
2a			
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>		
2b			
3	Parent of Supported Organizations. Answer (a) and (b) below.		
a	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>		
3a			
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>		
3b			

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.

Section A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1 Net short-term capital gain	1		
2 Recoveries of prior-year distributions	2		
3 Other gross income (see instructions)	3		
4 Add lines 1 through 3.	4		
5 Depreciation and depletion	5		
6 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)	6		
7 Other expenses (see instructions)	7		
8 Adjusted Net Income (subtract lines 5, 6, and 7 from line 4).	8		

Section B - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1 Aggregate fair market value of all non-exempt-use assets (see instructions for short tax year or assets held for part of year):			
a Average monthly value of securities	1a		
b Average monthly cash balances	1b		
c Fair market value of other non-exempt-use assets	1c		
d Total (add lines 1a, 1b, and 1c)	1d		
e Discount claimed for blockage or other factors (explain in detail in Part VI):			
2 Acquisition indebtedness applicable to non-exempt-use assets	2		
3 Subtract line 2 from line 1d.	3		
4 Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions).	4		
5 Net value of non-exempt-use assets (subtract line 4 from line 3)	5		
6 Multiply line 5 by .035.	6		
7 Recoveries of prior-year distributions	7		
8 Minimum Asset Amount (add line 7 to line 6)	8		

Section C - Distributable Amount			Current Year
1 Adjusted net income for prior year (from Section A, line 8, Column A)	1		
2 Enter 85% of line 1.	2		
3 Minimum asset amount for prior year (from Section B, line 8, Column A)	3		
4 Enter greater of line 2 or line 3.	4		
5 Income tax imposed in prior year	5		
6 Distributable Amount. Subtract line 5 from line 4, unless subject to emergency temporary reduction (see instructions).	6		

7 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 Part VI). See instructions.	
7	Total annual distributions. Add lines 1 through 6.	
8	Distributions to attentive supported organizations to which the organization is responsive (provide details in Part VI). See instructions.	
9	Distributable amount for 2016 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-2016	(iii) Distributable Amount for 2016
1	Distributable amount for 2016 from Section C, line 6			
2	Underdistributions, if any, for years prior to 2016 (reasonable cause required—explain in Part VI). See instructions.			
3	Excess distributions carryover, if any, to 2016:			
a				
b				
c	From 2013			
d	From 2014			
e	From 2015			
f	Total of lines 3a through e			
g	Applied to underdistributions of prior years			
h	Applied to 2016 distributable amount			
i	Carryover from 2011 not applied (see instructions)			
j	Remainder. Subtract lines 3g, 3h, and 3i from 3f.			
4	Distributions for 2016 from Section D, line 7: \$			
a	Applied to underdistributions of prior years			
b	Applied to 2016 distributable amount			
c	Remainder. Subtract lines 4a and 4b from 4.			
5	Remaining underdistributions for years prior to 2016, if any. Subtract lines 3g and 4a from line 2. For result greater than zero, explain in Part VI. See instructions.			
6	Remaining underdistributions for 2016. Subtract lines 3h and 4b from line 1. For result greater than zero, explain in Part VI. See instructions.			
7	Excess distributions carryover to 2017. Add lines 3j and 4c.			
8	Breakdown of line 7:			
a				
b	Excess from 2013			
c	Excess from 2014			
d	Excess from 2015			
e	Excess from 2016			

SCHEDULE L
(Form 990 or 990-EZ)

Transactions With Interested Persons

OMB No. 1545-0047

2016

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.**
▶ **Information about Schedule L (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.**

Name of the organization
Mathematical Staircase, Inc.

Employer identification number
46-1813949

Part I Excess Benefit Transactions (section 501(c)(3), section 501(c)(4), and 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)												
Total ▶						\$						

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 Joan Belcastro, Treasurer	\$20,485	independent contractor		<input checked="" type="checkbox"/>
(2)					
(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, President and Chair of the Board, is the daughter of Joan Belcastro, Treasurer. Neither are compensated either as members of the Board of Directors nor as Officers. sarah-marie belcastro, is paid a total of \$20,485: \$13,820 as the director of the MathILy summer program and \$6,665 as an instructor in the program.

**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.

▶ Information about Schedule O (Form 990 or 990-EZ) and its instructions is at www.irs.gov/form990.

OMB No. 1545-0047

2016

Open to Public Inspection

Name of the organization
Mathematical Staircase, Inc.

Employer identification number
46-1813949

Part V: Line 1a

The organization files its forms 1099 through a service which files the forms 1099 electronically. All persons providing services to the organization are independent contractors.

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 MathLy 5-week summer program as well as serving as a lead instructor for the program. Also, Hannah Alpert, Clerk and Secretary of the Board, is a lead instructor for MathLy.

Part VI: Line 2

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

Part VI: Line 9

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

Hannah Alpert, PhD, Clerk and Secretary of the Board, 2933 Neil Ave., Apt. 330A, Columbus OH 43202

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

Joshua Greene, PhD, Director, 57 Harvard Ave., #6, Brookline, MA 02446

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

Part VI: Line 12c

All members of the Board are aware of the family relationship between the President and Chair of 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.

Part VI: 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 tax filings.

Part VI: 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:

Name of the organization Mathematical Staircase, Inc.	Employer identification number 46-1813949
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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, PhD, 2933 Neil Ave., Apt. 330A, Columbus, OH 43202, tel: 720-771-6428

Part VII: Line 1a

The \$20,485 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 \$13,820; and, additionally, as an instructor in the program, she was paid \$6,665. The \$6,665 paid to Hannah Alpert was not for her position as Clerk and Secretary of the Board but was for being an instructor in the MathLy summer program.

Part XI: Line 10

Adding lines 3 through 9 is \$1 less than what is reported on line 10 due to a rounding difference; but it is the number which appears on Part X, line 34 as required by the instructions.

Part VI: 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 to the Board.

Part IX: Line 5

See explanation for Part VII, Line 1a, for a breakdown of the \$27,150 paid to the Directors and Officers, sarah-marie belcastro, and Hannah Alpert.

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Schedule O (Form 990 or 990-EZ), such as legislation enacted after the schedule and its instructions were published, go to www.irs.gov/form990.

Purpose of Schedule

An organization should use Schedule O (Form 990 or 990-EZ), rather than separate attachments, to provide the IRS with narrative information required for responses to specific questions on Form 990 or 990-EZ, and to explain the organization's operations or responses to various questions. It allows organizations to supplement information reported on Form 990 or 990-EZ.

Don't use Schedule O to supplement responses to questions in other schedules of the Form 990 or 990-EZ. Each of the other schedules includes a separate part for supplemental information.

Who Must File

All organizations that file Form 990 and certain organizations that file Form 990-EZ must file Schedule O (Form 990 or 990-EZ). At a minimum, the schedule must be used to answer Form 990, Part VI, lines 11b and 19. If an organization isn't required to file Form 990 or 990-EZ but chooses to do so, it must file a complete return and provide all of the information requested, including the required schedules.

Specific Instructions

Use as many continuation sheets of Schedule O (Form 990 or 990-EZ) as needed.

Complete the required information on the appropriate line of Form 990 or 990-EZ prior to using Schedule O (Form 990 or 990-EZ).

Identify clearly the specific part and line(s) of Form 990 or 990-EZ to which each response relates. Follow the part and line sequence of Form 990 or 990-EZ.

Late return. If the return is not filed by the due date (including any extension granted), attach a separate statement giving the reasons for not filing on time. **Don't use** this schedule to provide the late-filing statement.

Amended return. If the organization checked the *Amended return* box on Form 990, *Heading*, item B, or Form 990-EZ, *Heading*, item B, use Schedule O (Form 990 or 990-EZ) to list each part or schedule and line item of the Form 990 or 990-EZ that was amended.

Group return. If the organization answered "Yes" to Form 990, line H(a), but "No" to line H(b), use a separate

attachment to list the name, address, and EIN of each affiliated organization included in the group return. **Don't use** this schedule. See the Instructions for Form 990, *I. Group Return*.

Form 990, Parts III, V, VI, VII, IX, XI, and XII. Use Schedule O (Form 990 or 990-EZ) to provide any narrative information required for the following questions in the Form 990.

1. Part III, *Statement of Program Service Accomplishments*.

- a. "Yes" response to line 2.
- b. "Yes" response to line 3.
- c. Other program services on line 4d.

2. Part V, *Statements Regarding Other IRS Filings and Tax Compliance*.

- a. "No" response to line 3b.
- b. "Yes" or "No" response to line 13a.
- c. "No" response to line 14b.

3. Part VI, *Governance, Management, and Disclosure*.

- a. Material differences in voting rights among members of the governing body in line 1a.
- b. Delegation of governing board's authority to executive committee in line 1a.
- c. "Yes" responses to lines 2 through 7b.
- d. "No" responses to lines 8a, 8b, and 10b.
- e. "Yes" response to line 9.
- f. Description of process for review of Form 990, if any, in response to line 11b.
- g. "Yes" response to line 12c.
- h. Description of process for determining **compensation** in response to lines 15a and 15b.
- i. If applicable, in response to line 18, an explanation as to why the organization checked the "Other" box or didn't make any of Forms 1023, 1024, 990, or 990-T publicly available.
- j. Description of public disclosure of documents in response to line 19.

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

a. Explain if reporting of compensation paid by a related organization is provided only for the period during which the related organization was related, not the entire calendar year ending with or within the tax year, and state the period during which the related organization was related.

b. Description of reasonable efforts undertaken to obtain information on compensation paid by related organizations, if the organization is unable to obtain such information to report in column (E).

5. Explanation for Part IX, *Statement of Functional Expenses*, line 11g (other fees

for services), including the type and amount of each expense included in line 11g, if the amount in Part IX, line 11g, exceeds 10% of the amount in Part IX, line 25 (total functional expenses).

6. Explanation for Part IX, *Statement of Functional Expenses*, line 24e (all other expenses), including the type and amount of each expense included in line 24e, if the amount on line 24e exceeds 10% of the amount in Part IX, line 25 (total functional expenses).

7. Part XI, *Reconciliation of Net Assets*. Explain any other changes in net assets or fund balances reported on line 9.

8. Part XII, *Financial Statements and Reporting*.

- a. Change in accounting method or description of other accounting method used on line 1.
- b. Change in committee oversight review from prior year on line 2c.
- c. "No" response to line 3b.

Form 990-EZ, Parts I, II, III, and V. Use Schedule O (Form 990 or 990-EZ) to provide any narrative information required for the following questions.

1. Part I, *Revenue, Expenses, and Changes in Net Assets or Fund Balances*.

- a. Description of other revenue, in response to line 8.
- b. List of grants and similar amounts paid, in response to line 10.
- c. Description of other expenses, in response to line 16.
- d. Explanation of other changes in net assets or fund balances, in response to line 20.

2. Part II, *Balance Sheets*.

- a. Description of other assets, in response to line 24.
- b. Description of total liabilities, in response to line 26.

3. Description of other program services in response to Part III, *Statement of Program Service Accomplishments*, line 31.

4. Part V, *Other Information*.

- a. "Yes" response to line 33.
- b. "Yes" response to line 34.
- c. Explanation of why organization didn't report unrelated business gross income of \$1,000 or more to the IRS on Form 990-T, in response to line 35b.
- d. "No" response to line 44d.

Other. Use Schedule O (Form 990 or 990-EZ) to provide narrative explanations and descriptions in response to other specific questions. The narrative provided should refer and relate to a particular line and response on the form.



Don't include on Schedule O (Form 990 or 990-EZ) any social security number(s), because this schedule will be made available for public inspection.