

CSTEM Teacher and Student Support Services

2012 CSTEM Program Evaluation Report

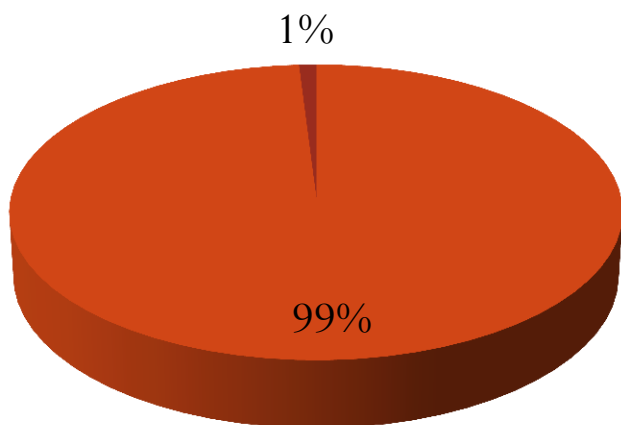


Data Pool

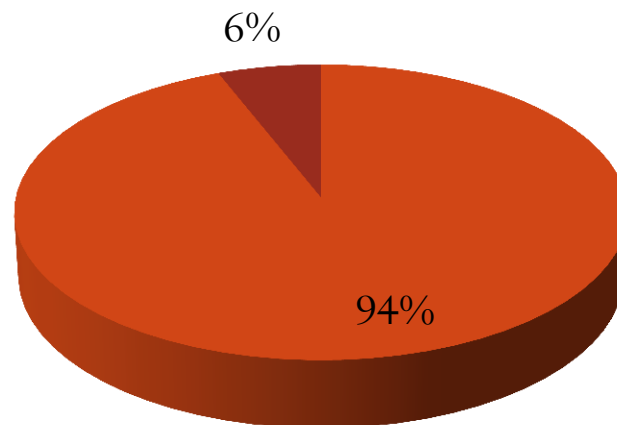
- An estimated 220 students Pre-K through 12th grade participated in this survey.
- Student outcome data is the result of their participation in the CSTEM program under the facilitation and leadership of teachers that participated in the CSTEM Teacher Training Institute (October 2011) and six supplemental workshops (November 2011-March 2012)
- The CSTEM Challenge program culminated March 31, 2012 at the George R. Brown Convention Center

School Participation

■ Urban ■ Suburban



■ National ■ International

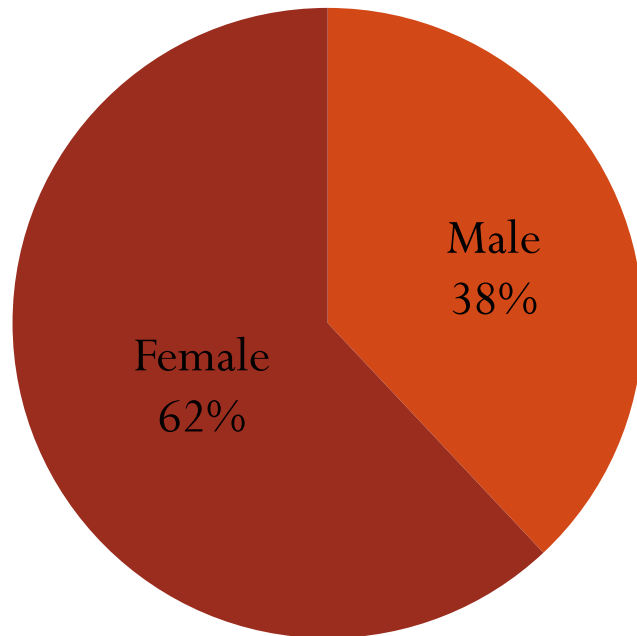


Student Perceptions of CSTEM

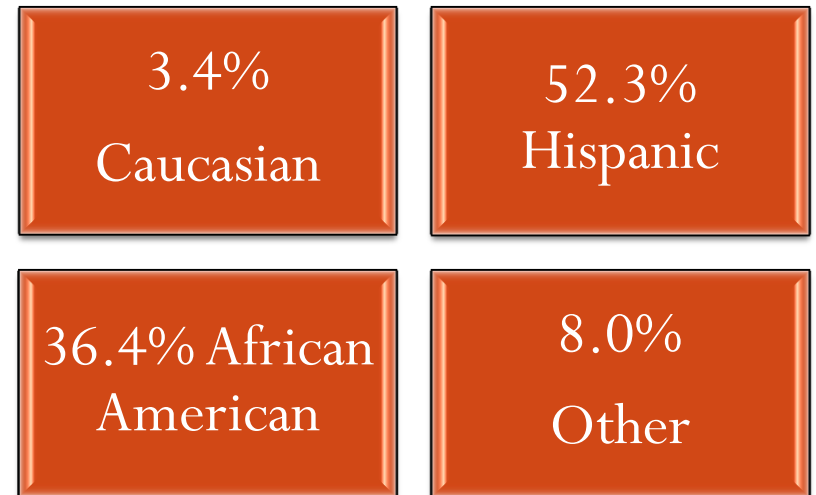
ELEMENTARY SCHOOL

Elementary Demographics

Gender



Ethnicity



Elementary Participants

Grade	Response Percent
Pre K	1.2%
1 st	2.5%
2 nd	8.6%
3 rd	8.6%
4 th	34.6%
5 th	44.4%

Someday I want to
be a scientist.

50.5% Yes

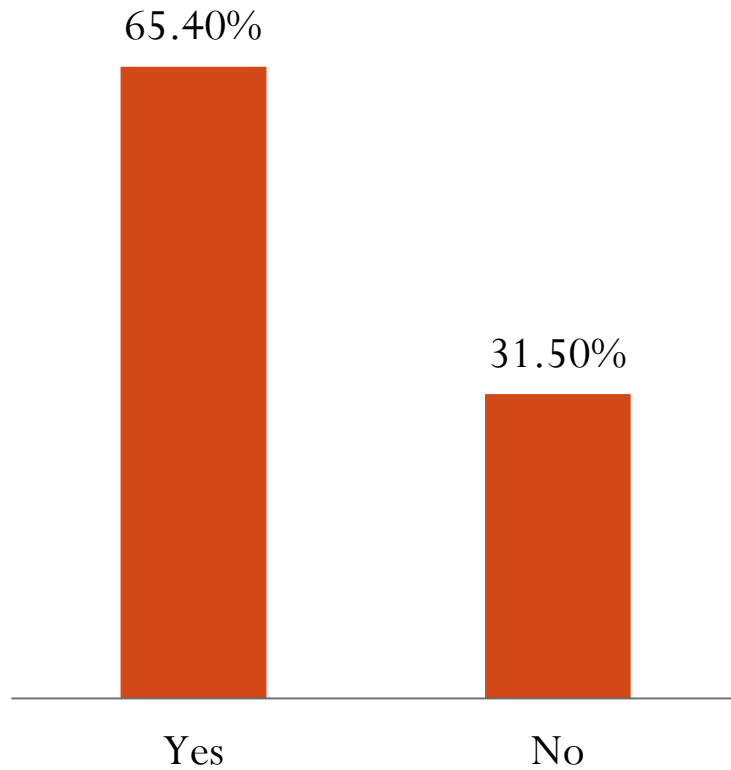
49.4% No

Someday I want to
be an engineer.

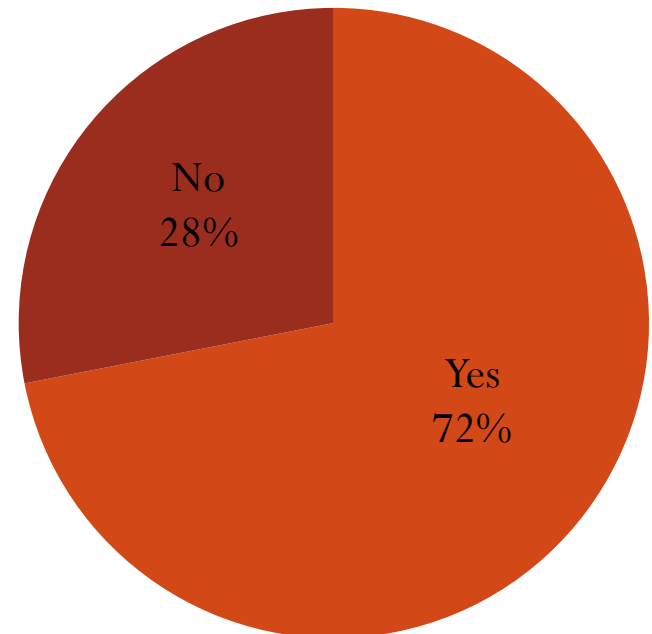
48.2% Yes

51.8% No

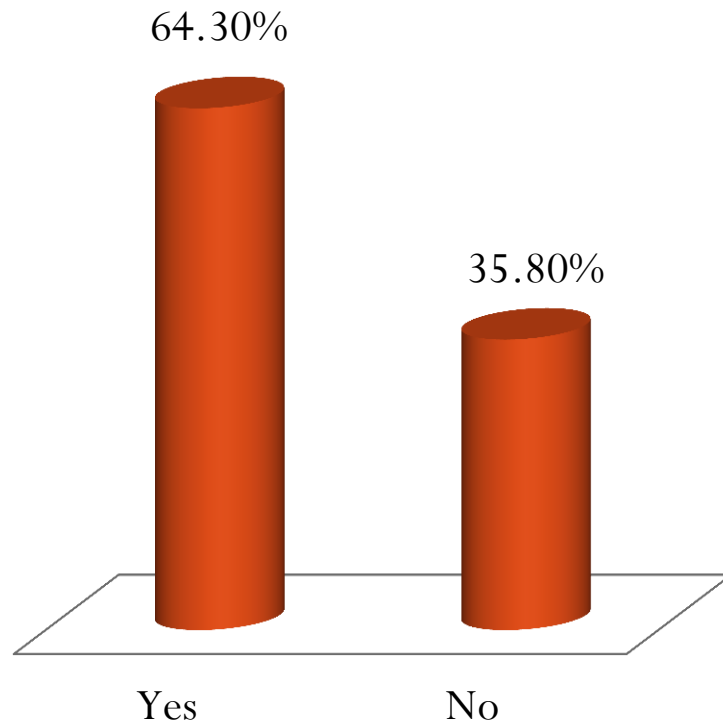
**Someday I want a job
that uses robotics.**



**Someday I want a job
with computers.**



**Someday I want a job
that uses math.**



**In middle
school I want to
take robotics
classes.**

**68.8%
Yes**

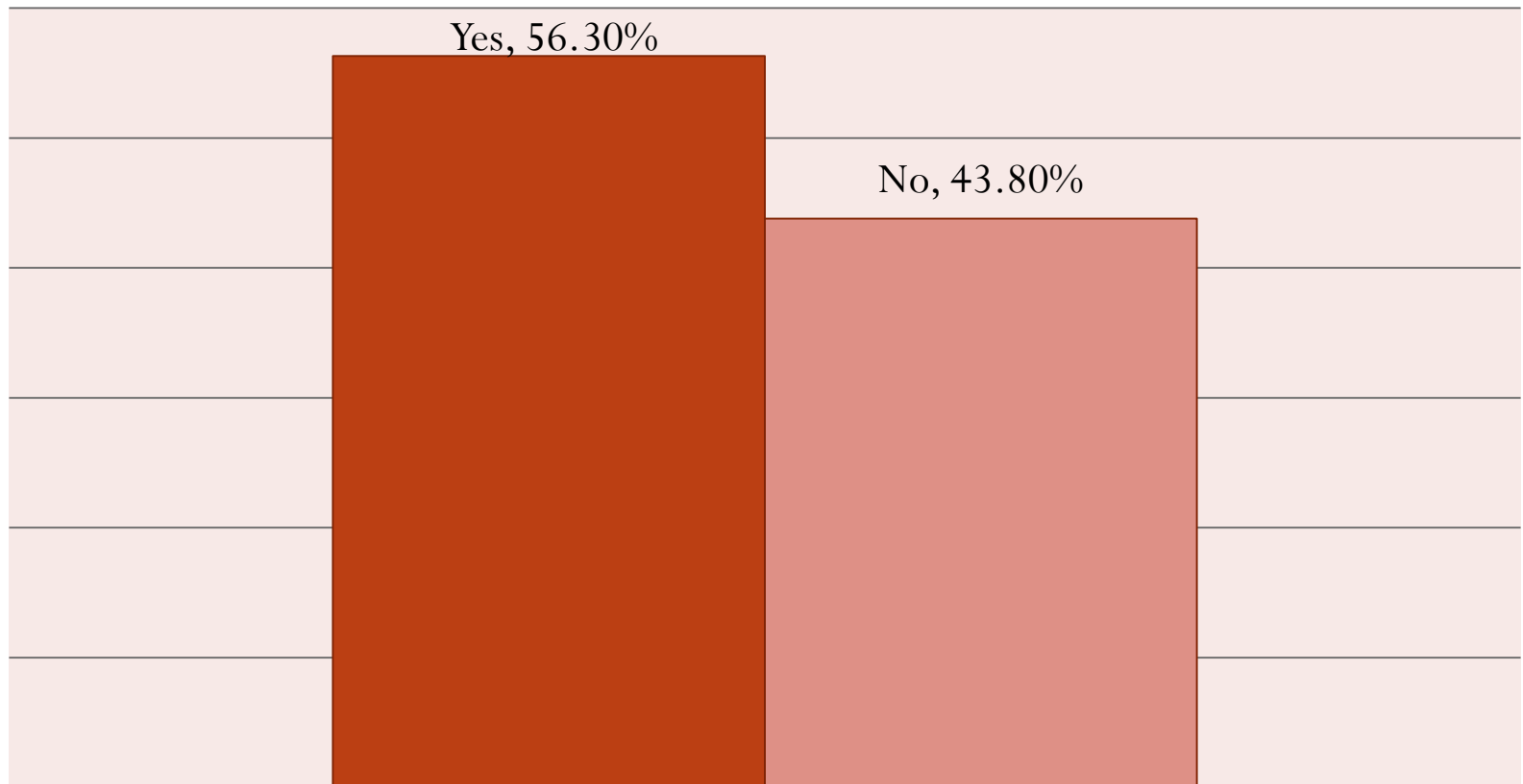
**31.3%
No**

**In middle
school I want to
take computer
classes.**

**62.40%
Yes**

**37.70%
No**

In middle school I want to take engineering classes.

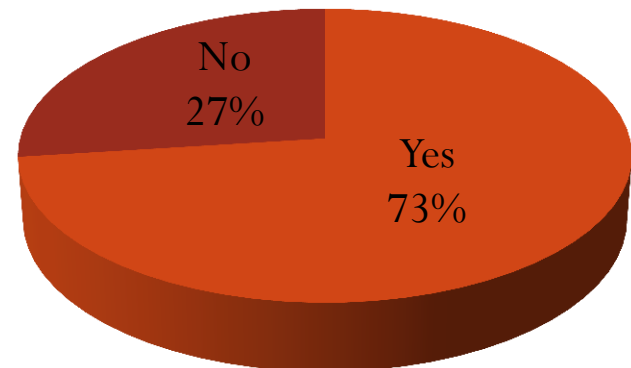


I like working on projects that connect art and math.

Yes — 66.6%

No — 33.3%

I like working on projects that connect art and science.



I like working on projects to create maps
(GIS).

Yes — 54.8%

No — 48.1%

I like working on green projects.

Yes — 67.6%

No — 32.6%

■ I like working on technology projects

66.70%



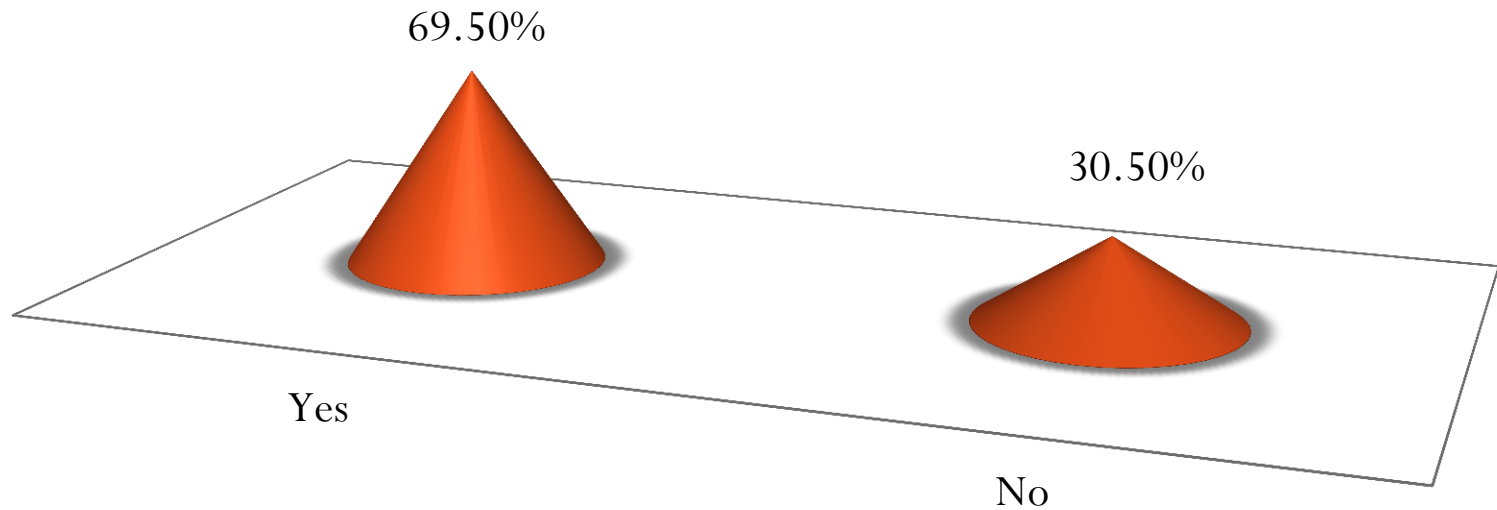
Yes

33.30%

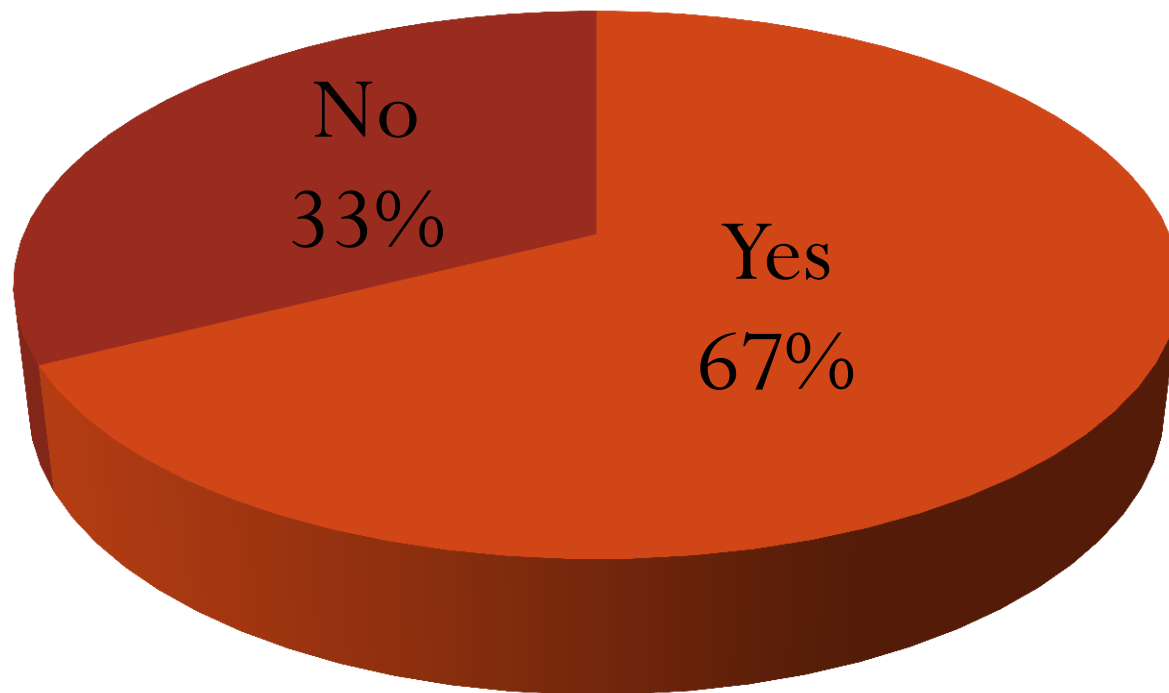


No

I like working on creative writing projects using computers.



I use the CSTEM-break.ning.com website

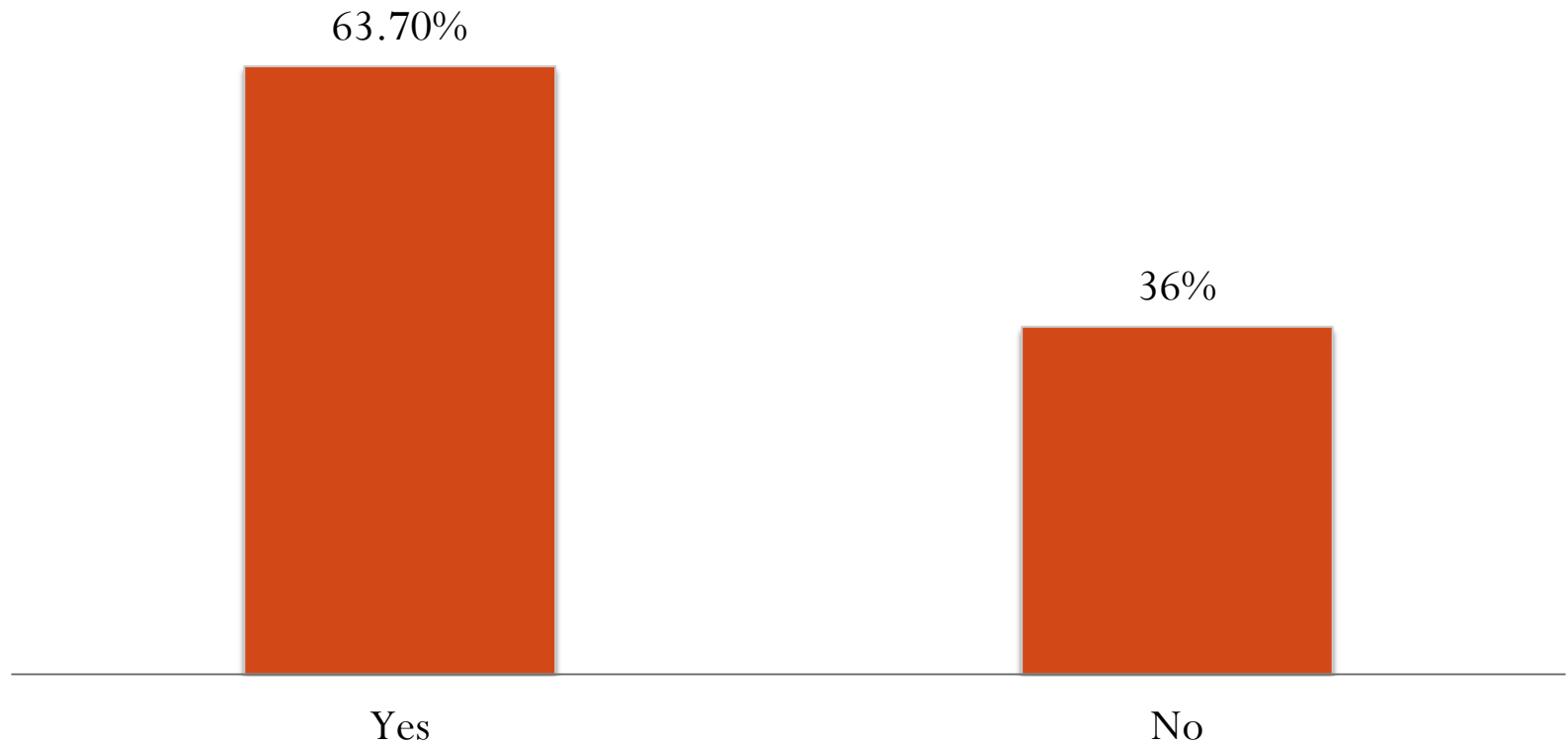


My classmates and I worked on our projects after school.

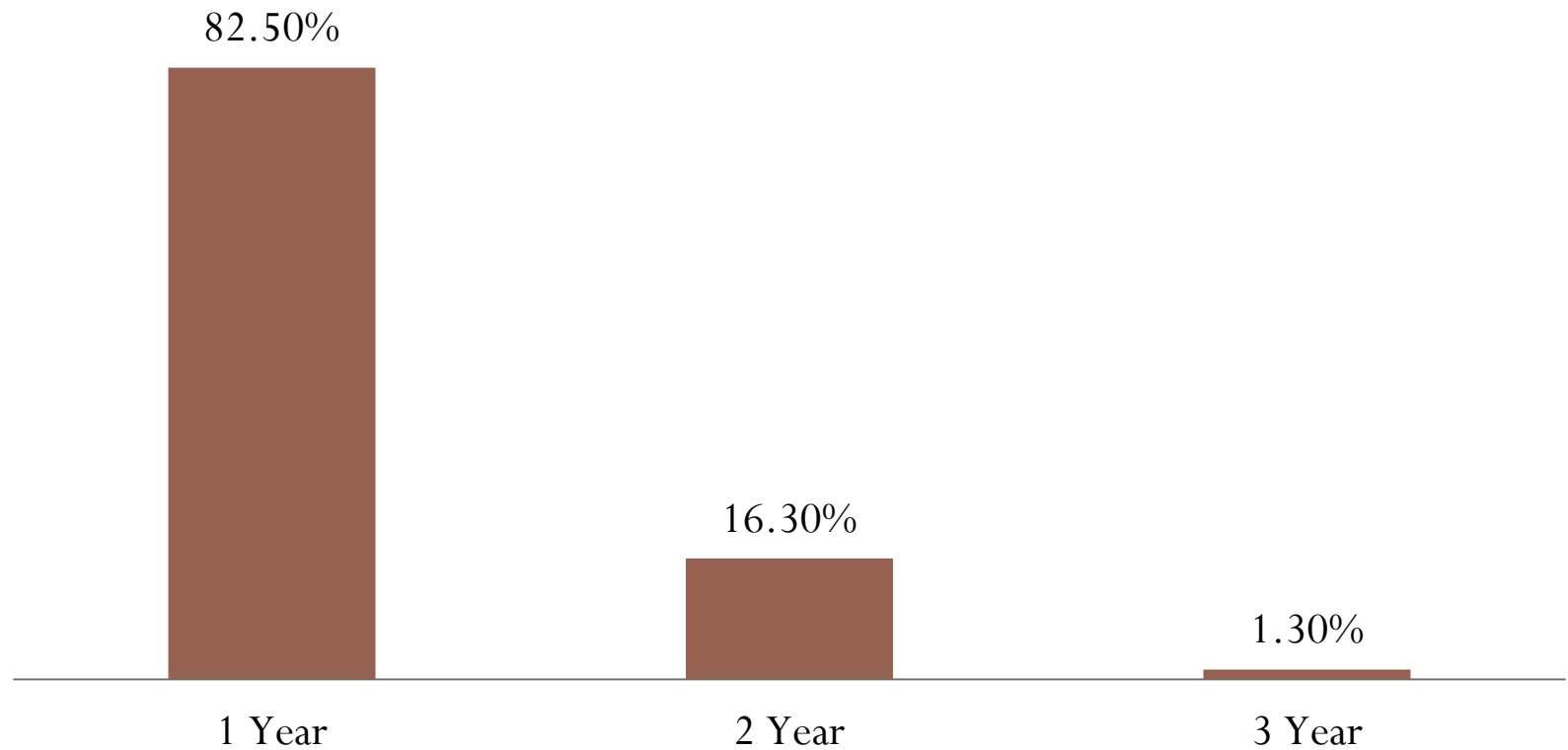
Yes — 74.1%

No — 26%

My classmates and I worked on our projects during school.

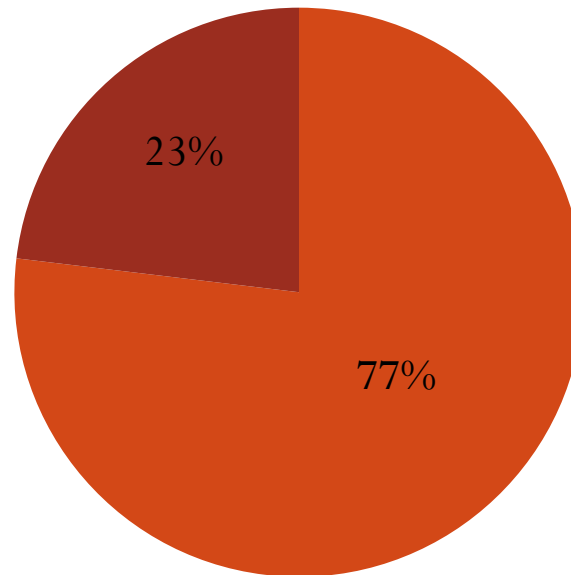


How many CSTEM challenge competitions have you participated in?



Being in CSTEM has taught me how to solve problems.

■ Yes ■ No



I am confident in using math and science to solve problems because of CSTEM.

Yes — 75.3%

No — 24.7%

Middle School



Ethnicity

55.3% Hispanic

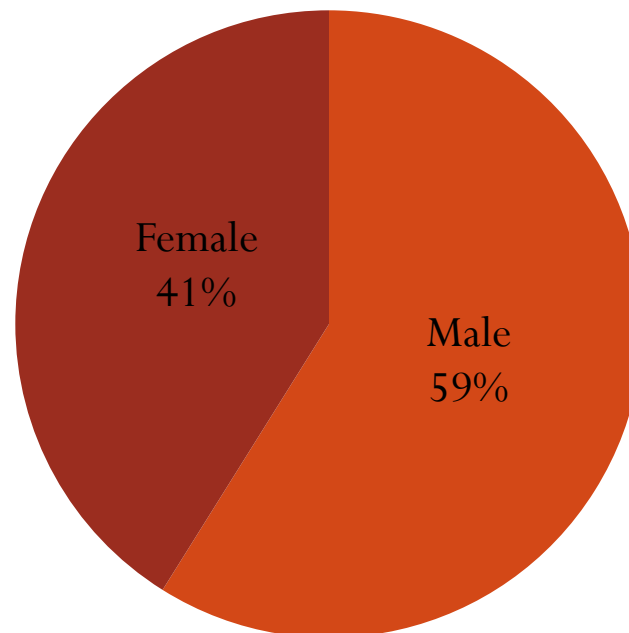
30.3% African
American

6.6% Asian

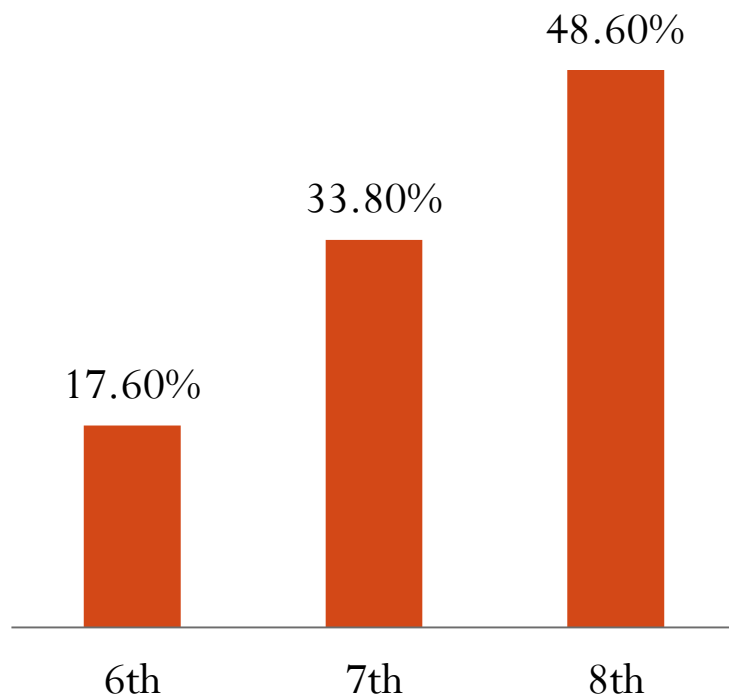
1.3% American
Indian

6.6% Other

Gender

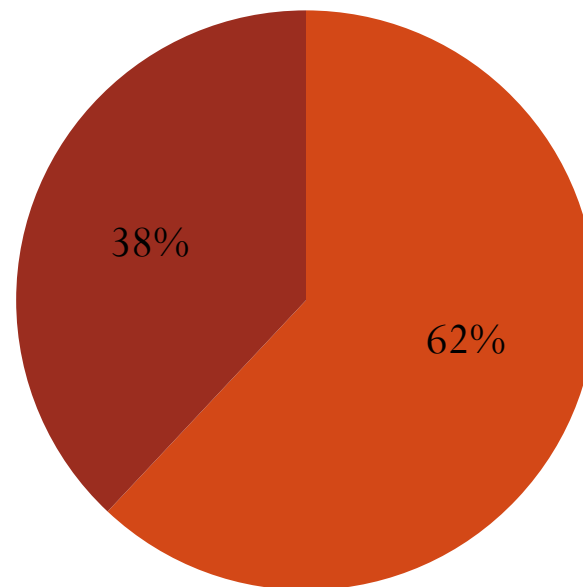


Grade Level

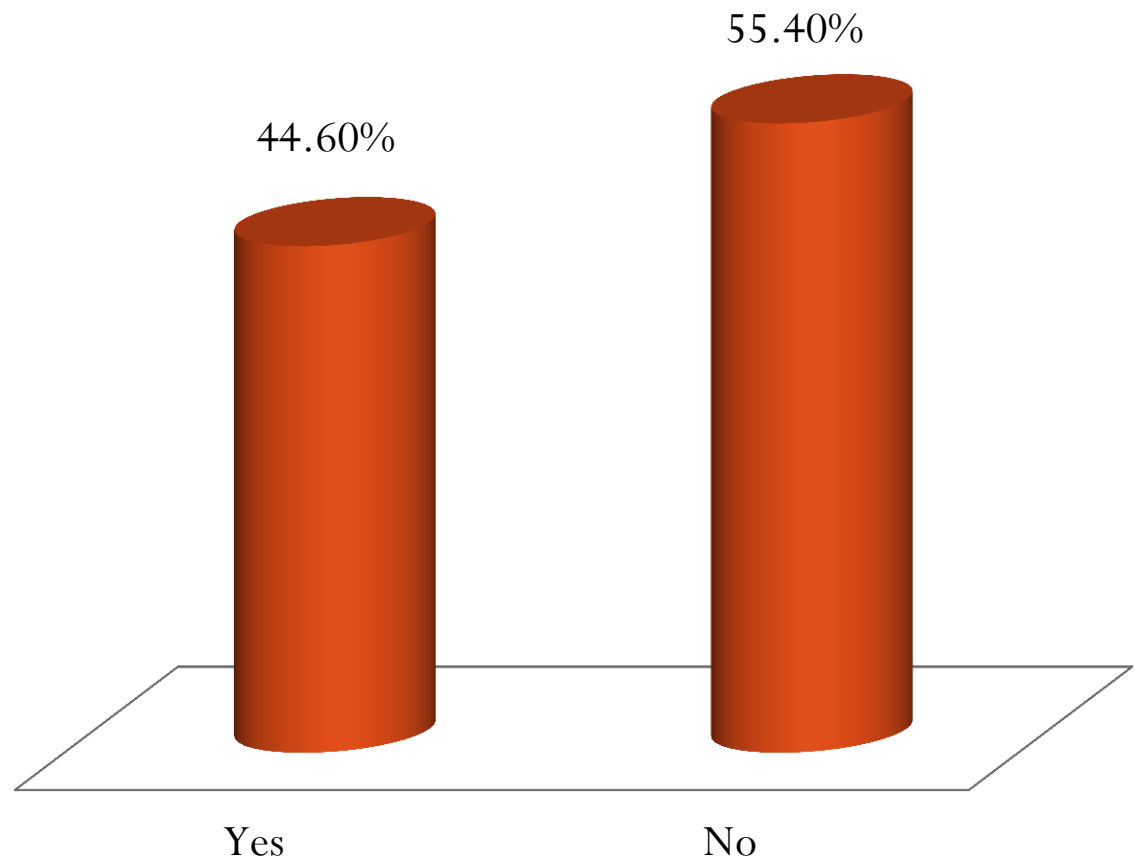


Respondents Currently Enrolled in Algebra

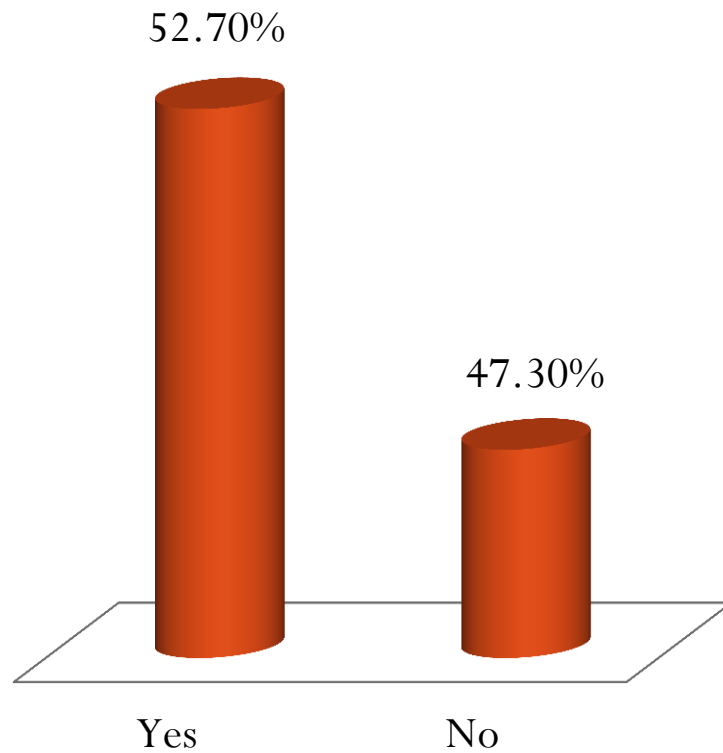
■ Enrolled ■ Not Enrolled



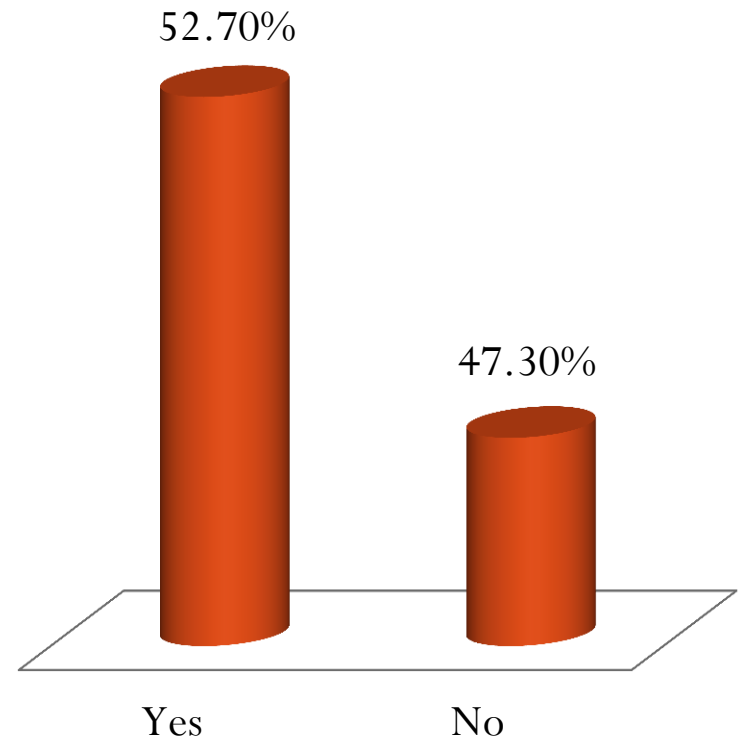
Someday I
want to be
a scientist.



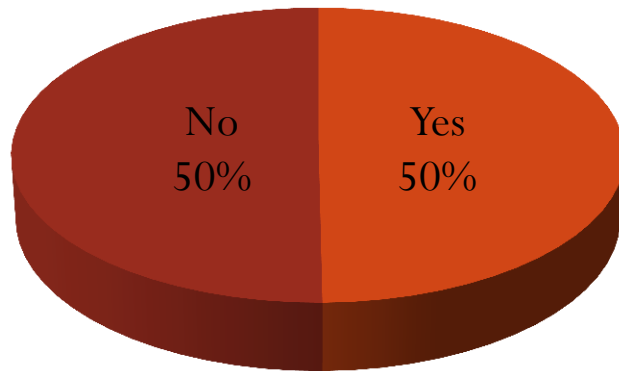
**Someday I want to be an
engineer.**



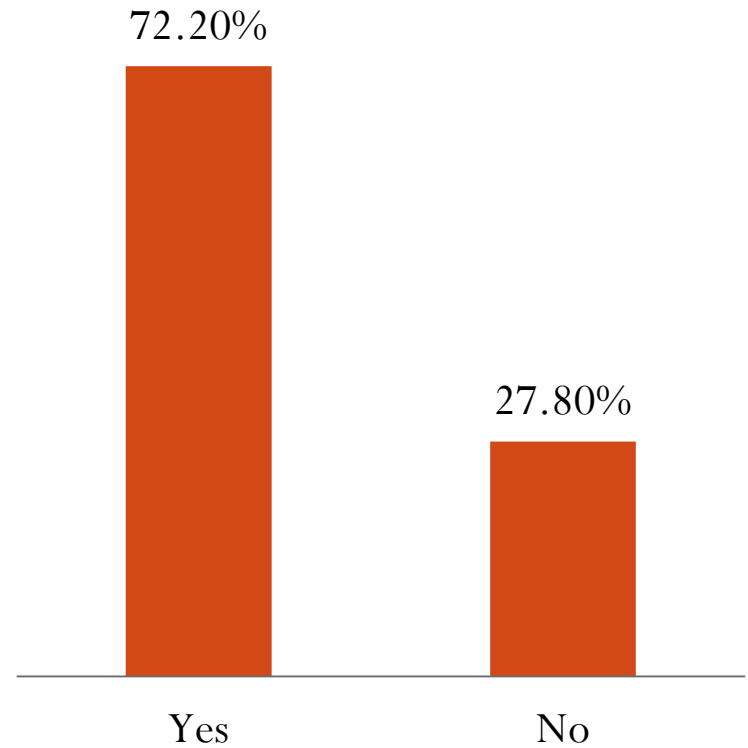
**Someday I want a job
that uses math.**



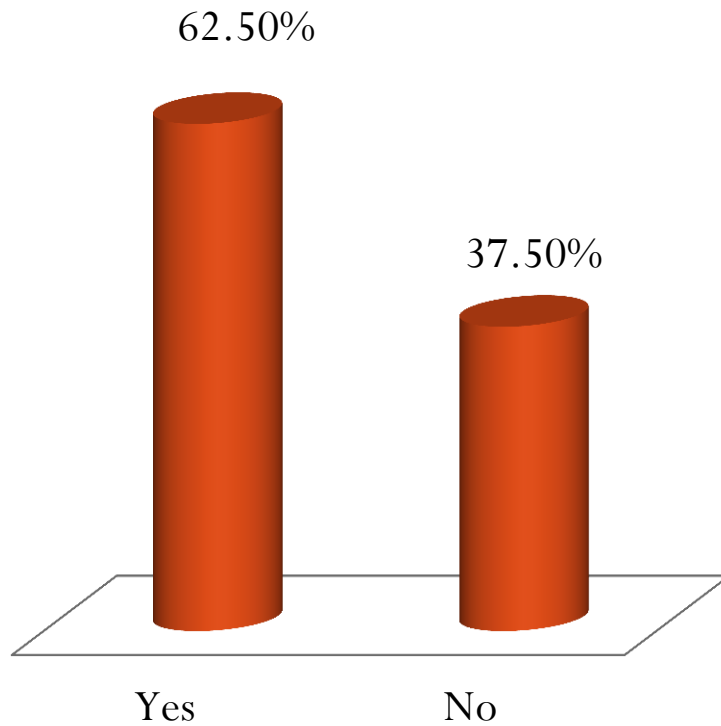
**Someday I want a job
with robotics.**



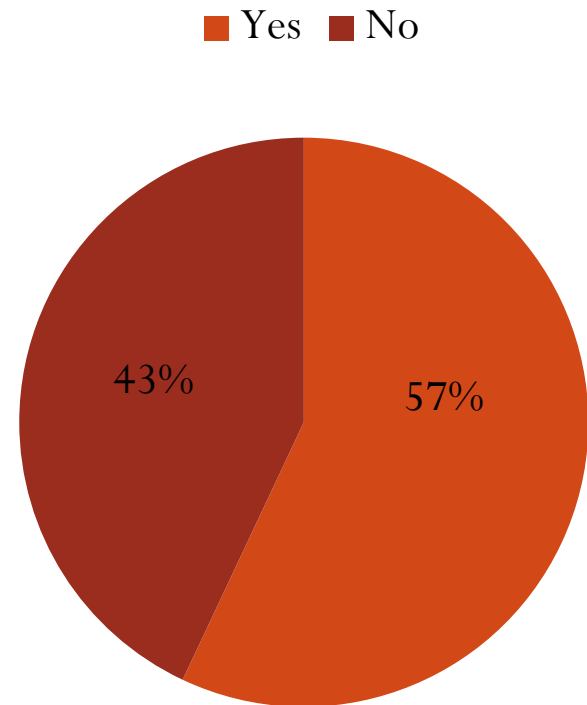
**Someday I want a job
with computers.**



**In high school I want to
take robotics classes.**



**In high school I want to
take engineering classes.**



In high school I want to
take computer classes.

Yes

68.4%

No

31.5%

I like working on projects
that connect art and math.

Yes

65.7%

No

34.2%

I like working on projects that connect art and science.

Yes
70.8%

No
29.2%

I like working on projects to create maps.

Yes
45.8%

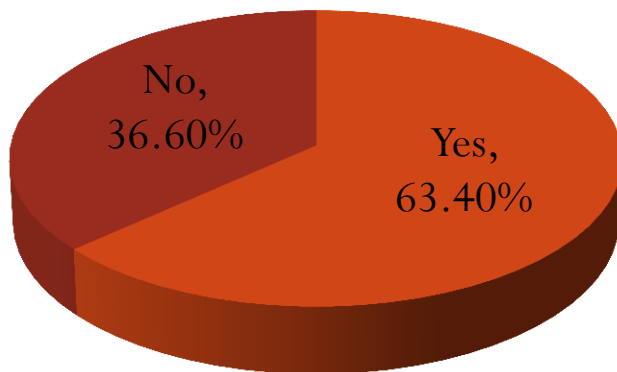
No
54.3%

I like working on green projects.

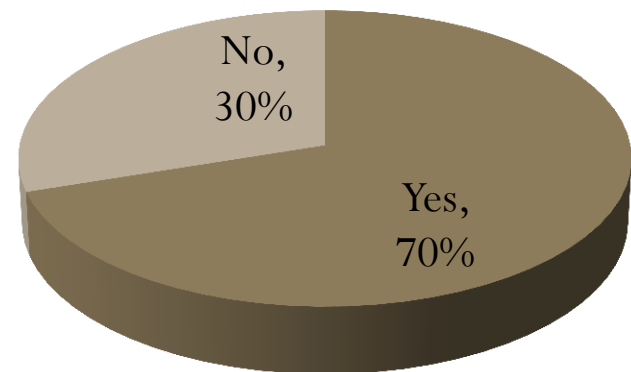
Yes
62.5%

No
63.4%

I like working on robotics projects.



I like working on creative writing projects using computers.



I use the CSTEM-
break.ning.com
website

Yes

53.6%

No

46.3%

My classmates and I
worked on our
projects after school.

Yes

74.3%

No

25.7

My classmates and I
worked on our
projects during
school.

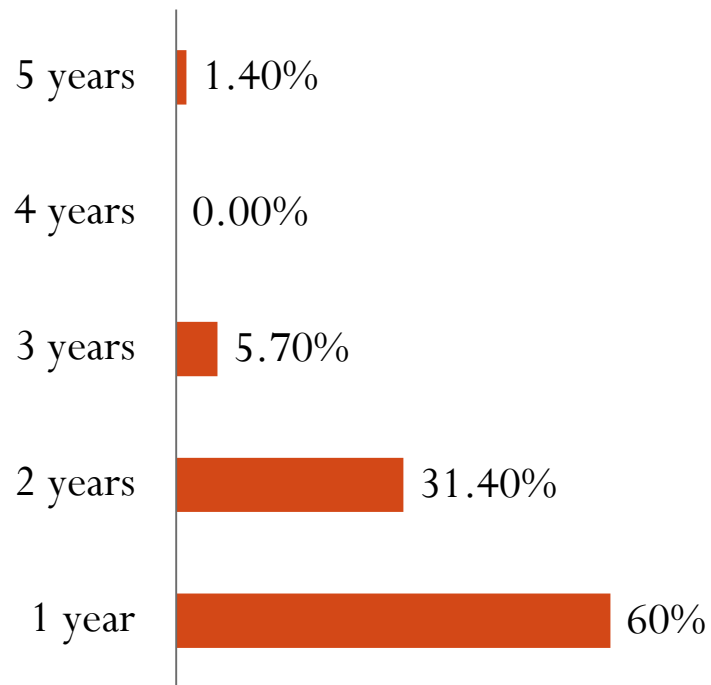
Yes

68.5%

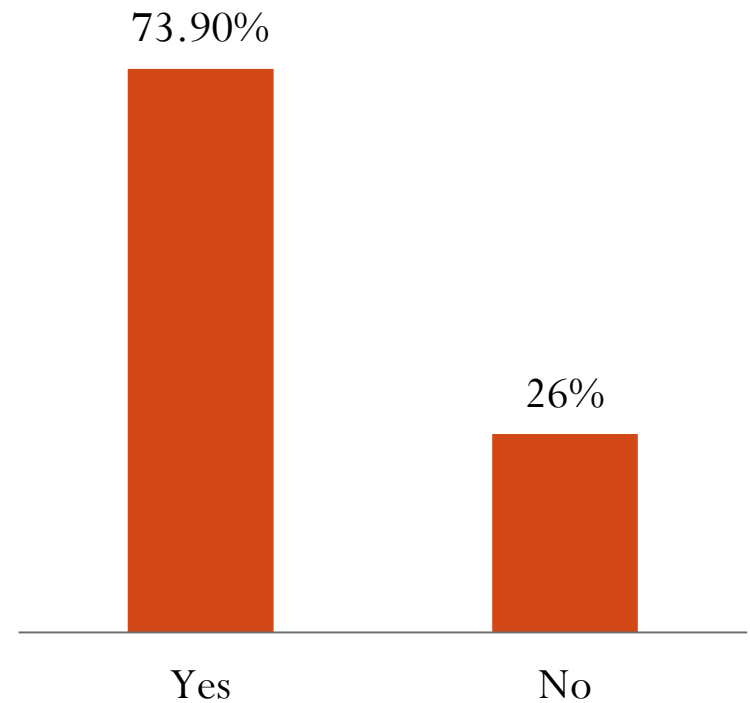
No

31.5%

How many CSTEM challenges have you participated in?



Being in CSTEM has helped me develop problem-solving skills



Being in CSTEM
has taught me how
to solve problems.

- 78.6% Yes
- 21.4% No

I am more
confident using
math and science to
solve problems
because of CSTEM.

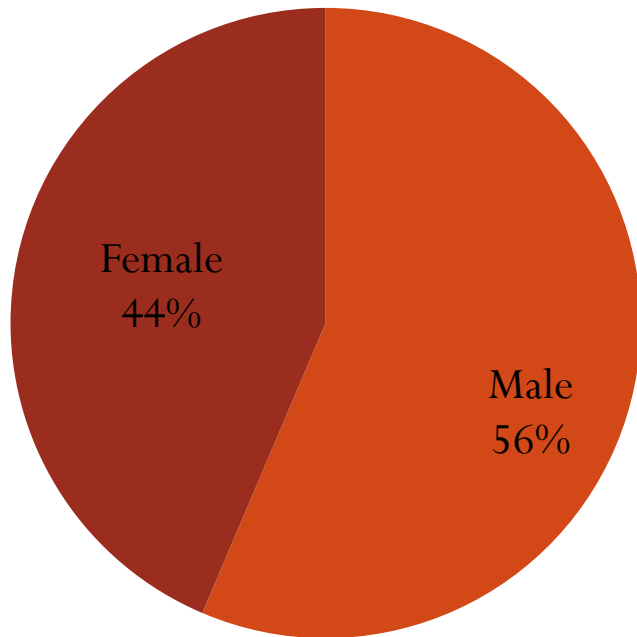
- 68.5% Yes
- 31.4% No

HIGH SCHOOL

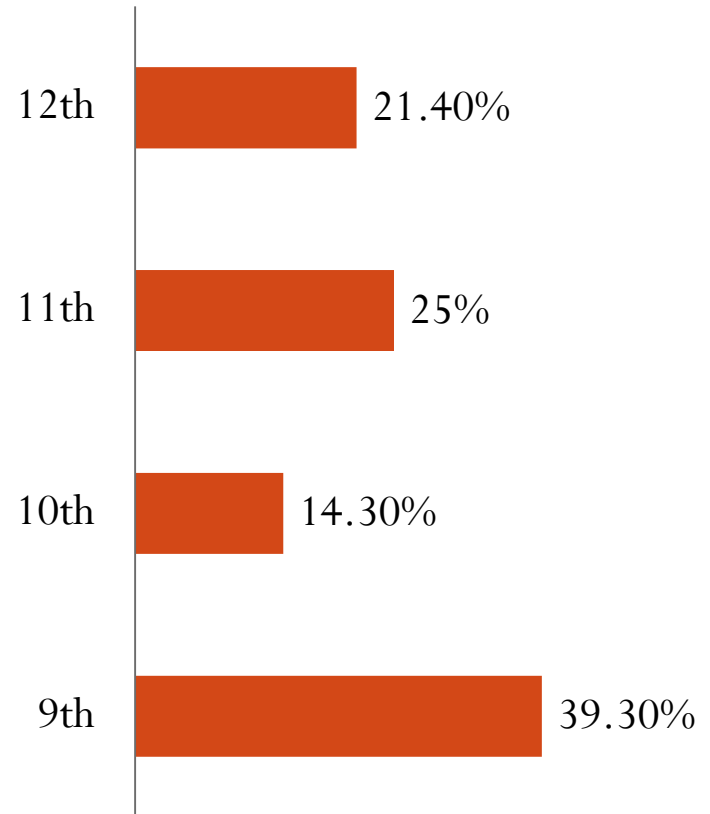
Student perceptions of CSTEM 2012



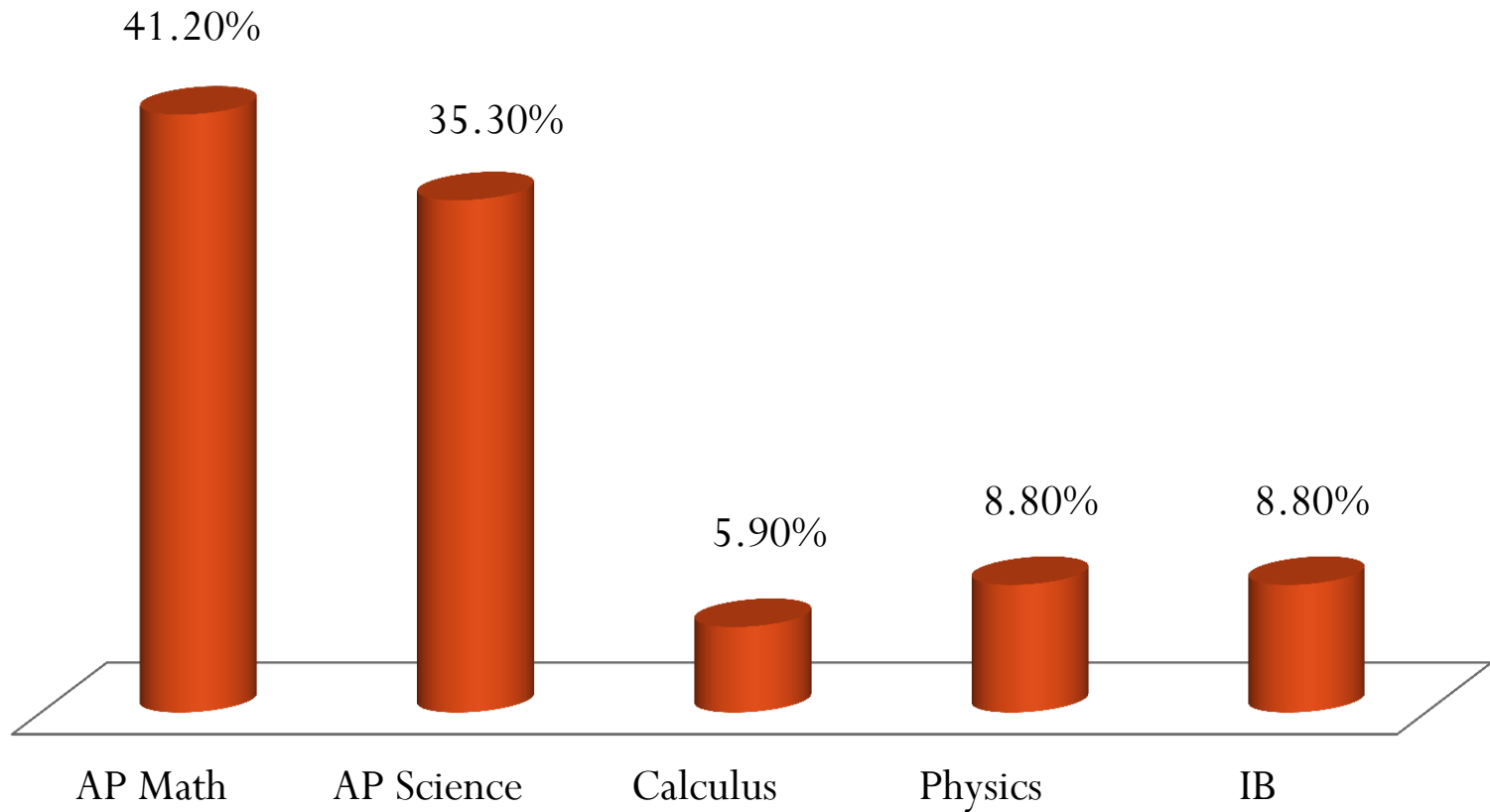
Gender



Grade Level



Currently Enrolled In:



Someday I want to
be a scientist.

Yes

45.3%

No

54.7%

Someday I want to
be an engineer.

Yes

53.7%

No

46.3%

Someday I want
a job that uses
math.

Yes
68.5%

No
31.5%

Someday I want
a job with
robotics.

Yes
57.7%

No
42.3%

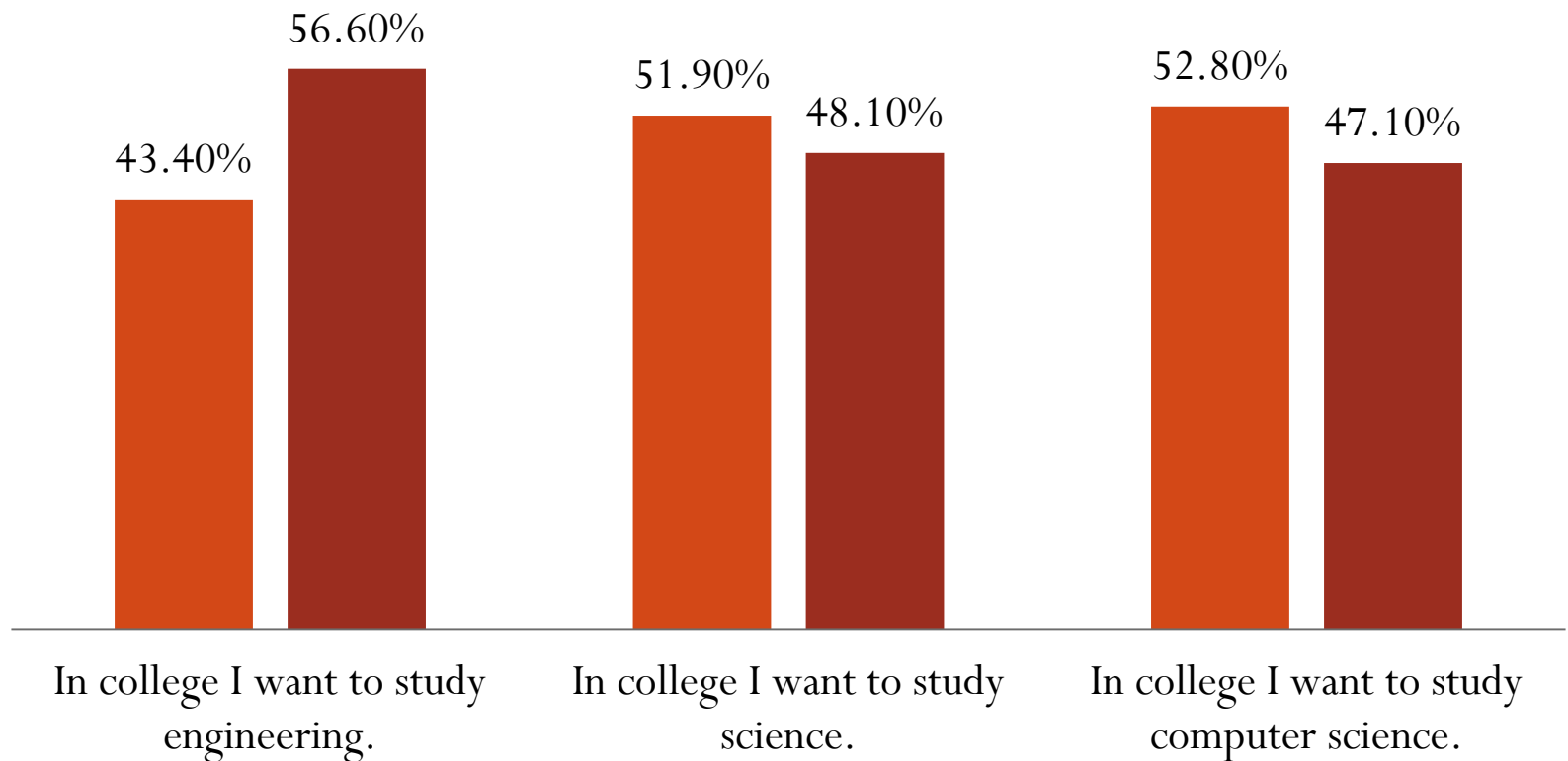
Someday I want
a job with
computers.

Yes
76.5%

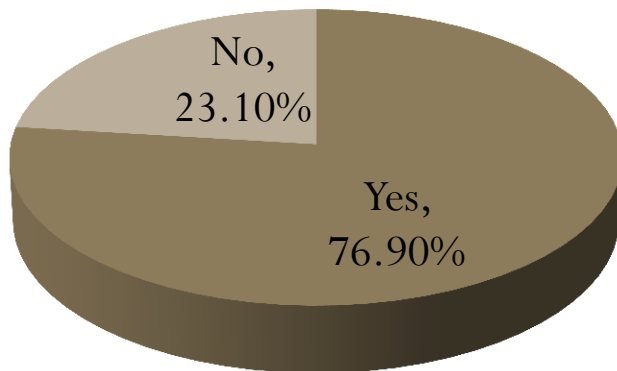
No
23.6%

College Plans

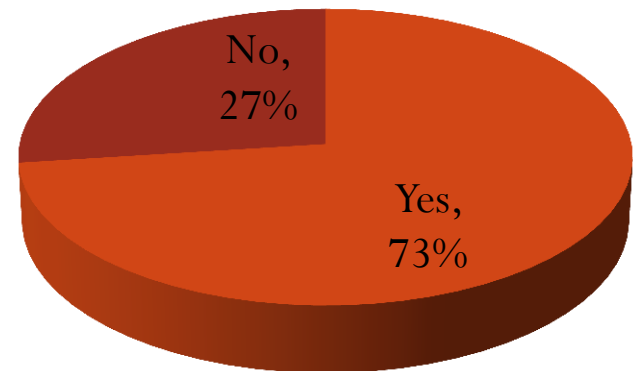
■ Yes ■ No



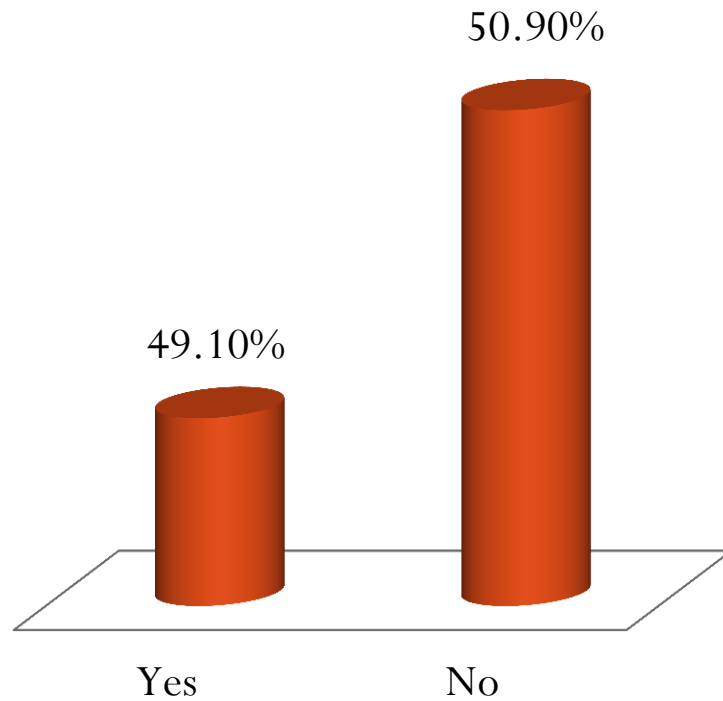
**I like working on projects
that connect art and math.**



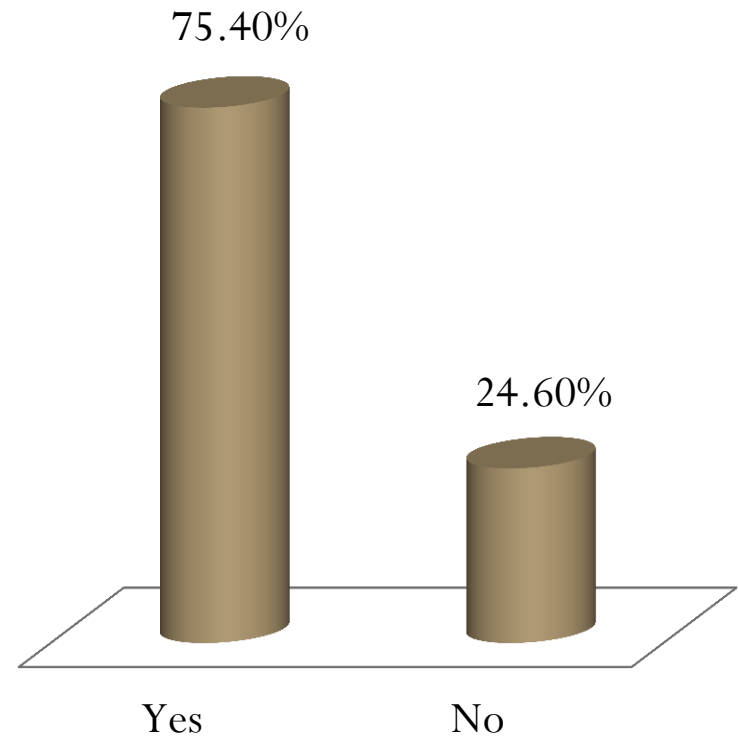
**I like working on
projects that connect art
and science.**



**I like working on
projects to create maps
(GIS).**



**I like working on green
projects.**



I like working on
robotics projects.

Yes

66%

No

33.9%

I like working with
creative writing
projects using
computers.

Yes

52.8%

No

47.2%

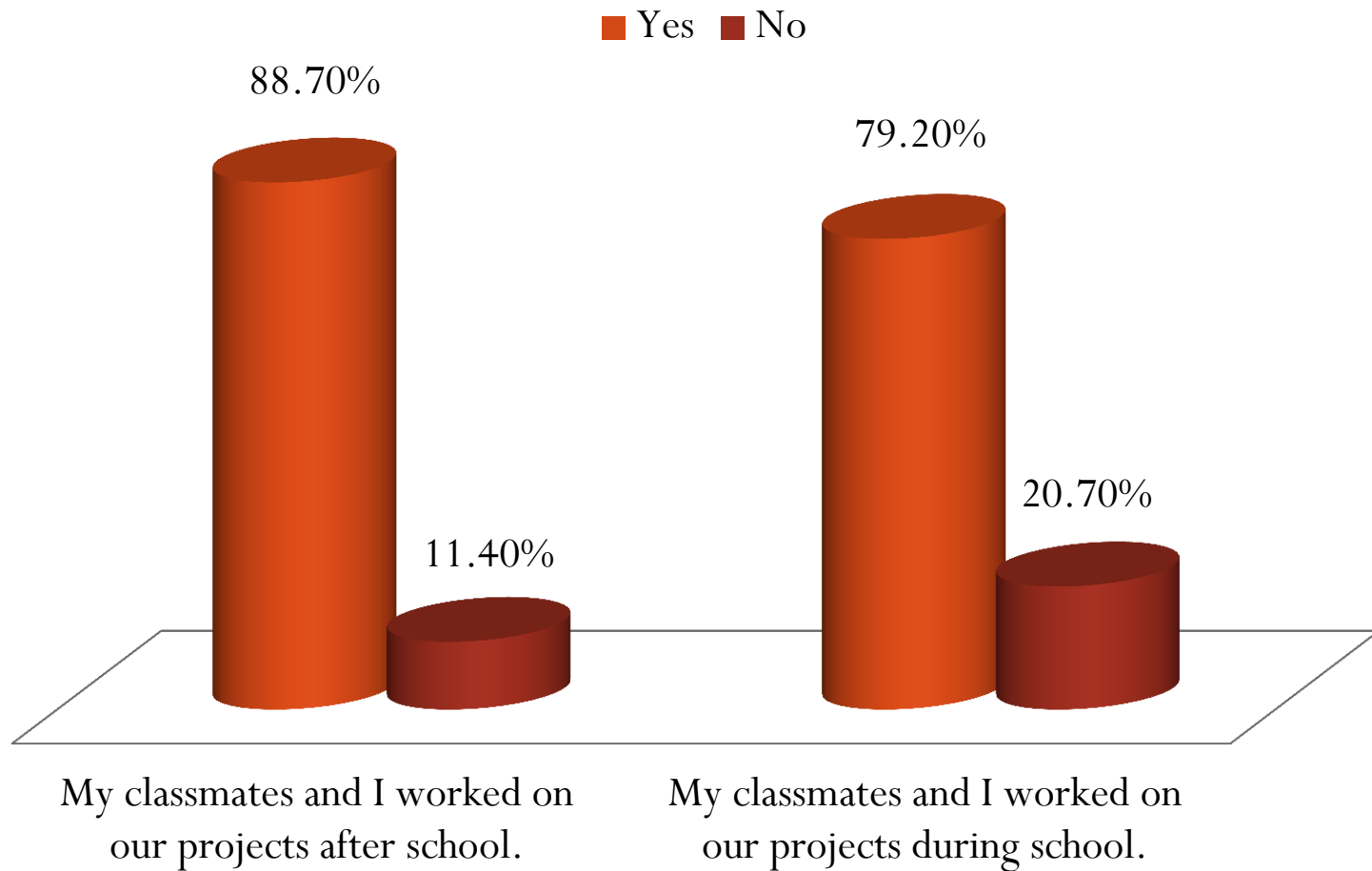
I use the CSTEM-
break.ning.com
website.

Yes

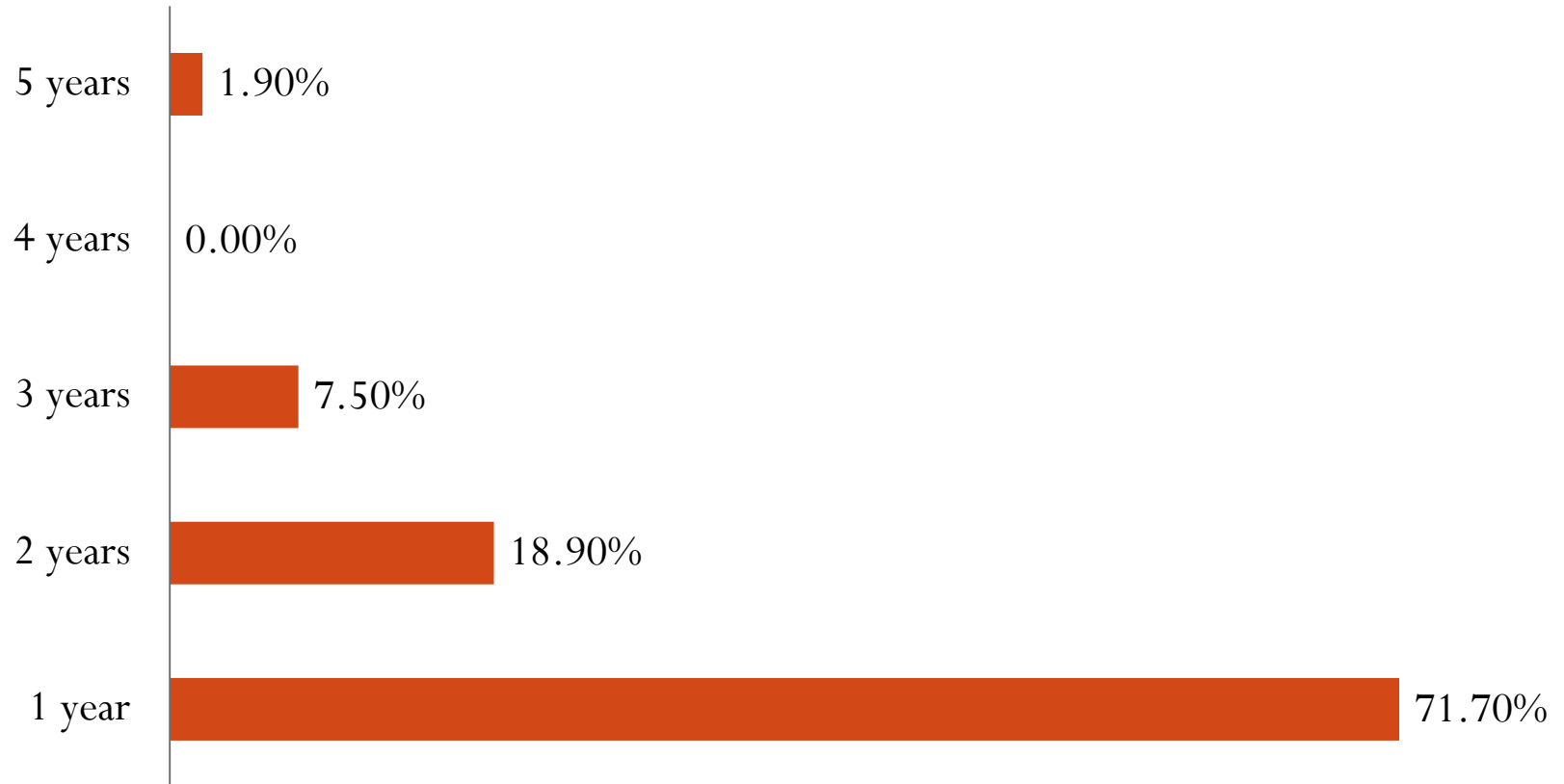
60.4%

No

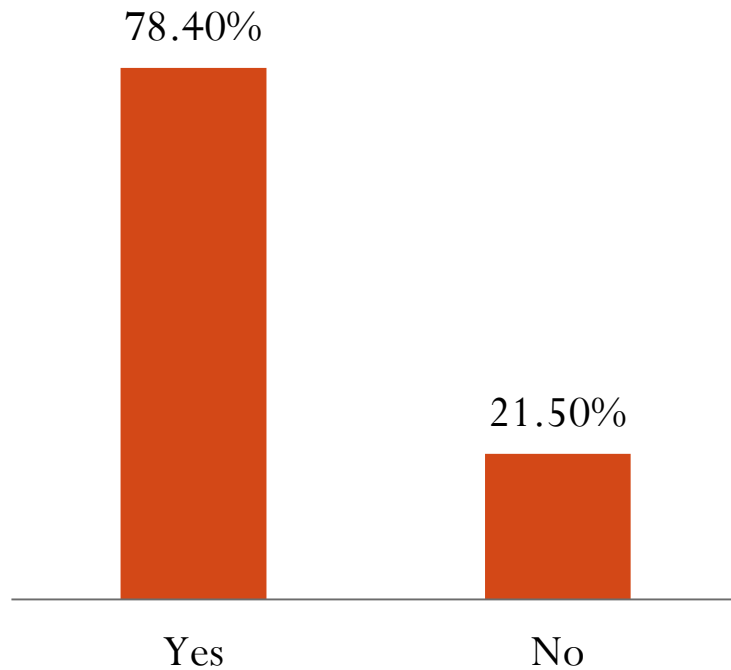
39.6%



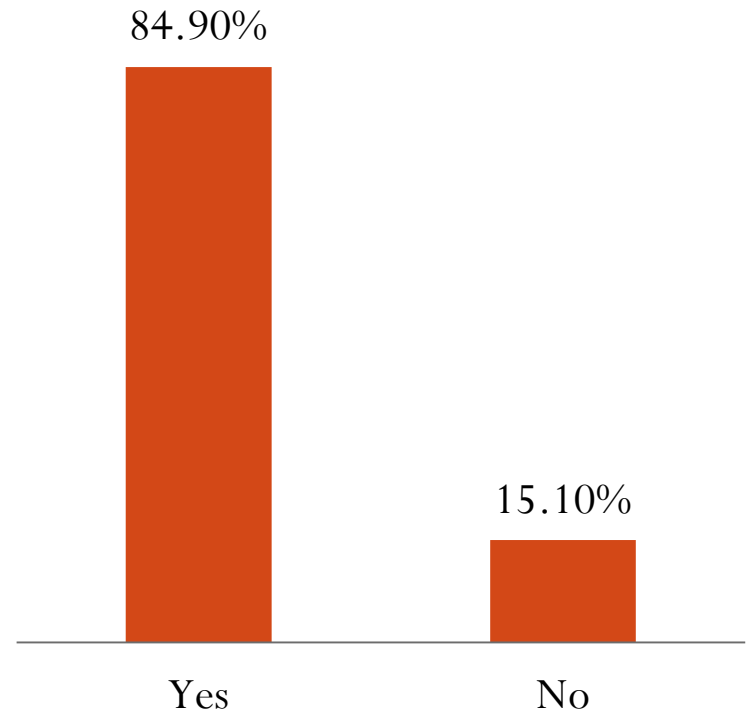
How many CSTEM challenges have you been in?



**Being in CSTEM has
developed my problem-
solving skills.**



**Being in CSTEM has
taught me how to work
as a team.**



I am more confident in using math and science to solve problems as a result of CSTEM.

