



Business School

UNIVERSITY OF COLORADO DENVER

COLORADOFIRST PARTICIPATION ANALYSIS

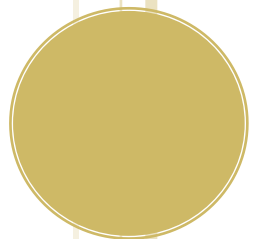
BARD CENTER CONSULTING

UNIVERSITY OF COLORADO DENVER BUSINESS SCHOOL

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I. INTRODUCTION

ColoradoFIRST is a non-profit organization that focuses on building STEM (science, technology, engineering and math) knowledge, as well as team building and self-confidence skills through mentored programs for grades K-12. While most teams are organized within schools, homeschooled students are invited to participate within these established teams. Three FIRST programs are available for children ages 9-18 – FIRST Lego League (FLL), FIRST Tech Challenge (FTC), and FIRST Robotics Competition (FRC) – and these are the focus of our research. FLL is the largest of the programs, designed for elementary and middle school children. After FLL, students have a choice of progressing to either FTC or FRC, although the most common progression appears to be participation in FTC for one year in high school before moving to FRC. We found that many programs suggest that students start in FTC as a development year before progressing towards the more skill-intensive FRC program. Recently ColoradoFIRST noticed a trend of decreasing participation in FTC and FRC. With so many younger children participating in FLL ideally there should be a natural progression in movement upward with age.

Rodger Stewart, VP of Development and Board Member at ColoradoFIRST, reached out to the Bard Center for Entrepreneurship in an effort to analyze the flow between these programs and identify potential reasons for the disconnect in the chain of progression. In addition, based on survey data, we provided recommendations that may serve to increase participation in the high school level programs. In order to tailor our survey questions to the appropriate audience, we created separate surveys for FLL and for FTC/FRC. The FLL survey focused on gauging the participant's future intentions toward participation in the upper level robotics programs, on their overall experience in FLL, and on their general awareness of the FTC and FRC programs. We also geared the latter portion of the survey toward student's involvement in other extracurricular activities which could perhaps be taking their time or focus. The FTC and FRC survey was more backward thinking with the intention of finding out which students from the advanced levels had participated in FLL and why they did or did not choose to participate in the various programs along the chain of progression. A second focus encouraged free response as to how students had heard about FTC and FRC and what encouraged them to participate. From these responses we gathered valuable information not included in the questions themselves and received candid and detailed answers from the students. We had a tremendous response rate from the students and what follows is our analysis and recommendations based on the data from the surveys and our general knowledge of the program.

II. FIRST LEGO LEAGUE

Notes to the Survey Data

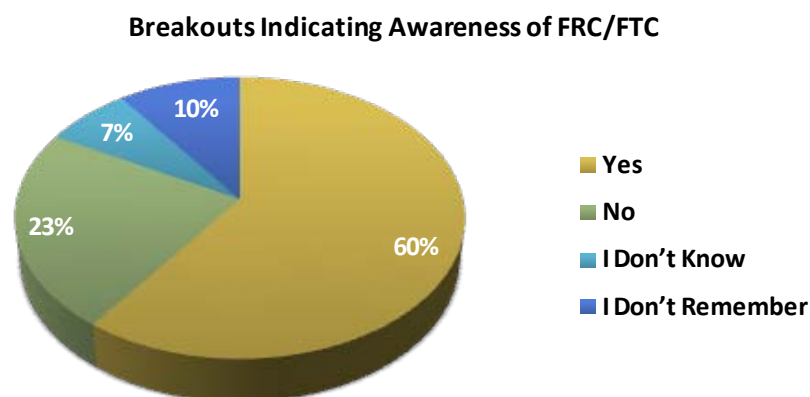
There exists a slight bias to the data extracted from the FLL survey: of the 149 kids surveyed 116 were in the 10-12 year old age range. However, we believe that the majority of kids in FLL are typically within these age ranges, so we feel this survey is overall an accurate representation of the population. Though 149 students responded to the survey questions the students were given the option to opt out of answers, so a few of the questions had slightly lower total responses. 66% of respondents were male and 34% female.

Analysis

The first set of questions look at future participation plans based on grade level. Including all grade levels, 42% answered that they plan on participating in FTC/FRC in high school, but exactly half selected "I don't know" or "I haven't decided." Only 8% said they did not plan on participating. Of the 62 students who said yes, the majority, or 23, was in the 9 and 10 year-old categories, or those farthest from being able to participate in FTC or FRC.

Future participation appears to be connected to whether the kids had attended an FTC or FRC competition. 35% said they had been to a competition. Of this 35% who had attended a competition, 63% plan on continuing with FTC or FRC in high school. The largest percentage of those undecided of their future plans with FIRST came from the 65% who had not been to a competition.

Questions concerning awareness levels of FLL participants about the advanced FIRST programs reveal that 40% have not yet heard about, don't know, or don't remember hearing about FTC or FRC. The graph below shows these breakouts in detail.



Responses show that 70% would like to spend more time on FLL activities and a full 73% indicated that it is important to them to be involved in an activity similar to FLL in high school. Of those that would like to continue 49% would prefer to stay with the same teammates, though 75% were unsure of their current teammates' plans; this is most likely due to the fact that the majority of the respondents were only in their first or second year of FLL.

Analysis of the student's additional extracurricular activities provides an indication of their outside time commitments and interests. 90% of respondents participate in extracurricular activities outside of FLL; 47% participate in 2 or more other activities. In the survey questions, students were given a range of various activity options to select: sports, music, art, or other science programs. Based on these answers, 71% participate in sports, 38% participate in music, 22% participate in art, and 20% are involved in other science programs, keeping in mind that some overlap occurs given that students could check multiple activities. The final option was a free response, the most common of which were chess, Odyssey of the Mind, and Cub or Boy Scouts. This data demonstrates that nearly all participants are involved in other activities that may limit their available time for FLL and their ability to attend every meeting or competition. As some of the later FIRST competitions require travel, this could affect other extracurricular activities, thereby preventing some students from wanting to move in FRC or FTC.

Recommendation

Our future participation analysis revealed that students who had attended a higher level competition were interested in moving up to those levels. Conversely, non-attendees were more likely to be undecided. This indicates that exposing those FLL participants to the higher level competitions motivates them to continue with the program, and as such we feel that the FLL curriculum should include attendance of at least one upper level event. This recommendation corresponds with our finding that 40% of kids in FLL are not aware of FTC and FRC. There is a key opportunity for early outreach at the FLL level that could serve to boost future FTC and FRC participation.

We also feel it would be beneficial for FLL mentors to take a more active role in formally documenting drop-out rates and recording transitions of students from one program to another. Submissions of the number of drop-outs and their grade levels should help to reveal trends within the program and illustrate which schools need to be targeted with additional informational resources. Our survey captured that the majority of FLL participants would like to spend more time on FLL activities, meaning that those invested in the program are enjoying their time, but

knowing the statistics behind the drop-outs will be beneficial for long-term success in sustaining participation at the younger levels.

In addition, feedback from parents is crucial as in this age group parents are typically the decision-makers behind their children's extracurricular choices. Finding out what they like and dislike about the FLL program, and informing them about the advanced FIRST programs should help encourage continuation to the upper levels.

III. FIRST TECH CHALLENGE & FIRST ROBOTIC COMPETITION

Notes on Analysis

The majority of the answers in the FTC and FRC survey were free response, as we hoped to gather information directly from the participants. Students were not required to submit an answer, but in general only one or two students opted not to provide a response on any given question. 73% of the respondents were male and 27% were female.

Analysis

The first set of questions focused on FLL involvement of the older participants. Of the advanced FIRST students who participated in FLL, 90% said they had a good experience and only 11% felt that FLL did not prepare them sufficiently for FTC and FRC. However, the majority of FTC and FRC survey respondents - 84% - did not participate in FLL indicating that they did not start any of the FIRST programs until high school. 70% of those students who did not participate in FLL said they did not know about the program as their main reason for not participating. Some indicated that they started in FIRST too late so went straight into FTC or FRC, while 23% said there was no available FLL chapter in their area.

Our second set of questions asked whether kids had or were currently participating in FTC. 76% of kids who responded answered that they did not participate in FTC; 65% claimed their reason for this was a lack of knowledge about FTC. Many said they transitioned straight from FLL to FTC or simply started the program in FRC. Of those who had done FTC a number of students preferred to participate in FTC for their freshman or first year before they moved into FRC. They felt that the smaller group size enabled them to start building their independent thinking skills by starting with slightly smaller projects than FRC. The majority of participants joined FTC because of their interest in technology and engineering, and/or had friends or family members that encouraged them to join.

"My decision in joining FTC was due to the 8th grade demonstration of FTC. It sparked my interest, so I talked to a teacher to help me join the junior varsity high school robotics."

"Because at the time in which I was a freshman, we had freshmen go on to FTC so they would be able to work and learn by themselves before joining and/or being overwhelmed by a team of the size and magnitude of FRC."

"Fun! Learned a ton about robotics too. Also looks great on transcript."

"The FTC competition was a great way to get started for FRC. I also like how the FTC competition is small and that makes it easier for smaller schools like mine to compete; compared to FRC. The game play is also a lot of fun because there are more ways to score."

Our third set of questions served to identify how many of the students participate in FRC and the reasons behind this decision. 90% of the students who completed the survey currently participate in FRC, but only 19% of these students also participated in FTC. The reasons for participation in FRC varied widely but often included a general interest in engineering and robotics, a desire to engage socially with friends while learning, a resume booster for college, or pressure to join by friends or siblings who were also participating.

"I first learned about robotics from a friend who was in Vex. From there it became not only an extracurricular that became a passion, but also something that I will do the rest of my life."

"The advancement in science and technology within FRC was something I could not pass up. With such a large spectrum being offered in FRC I knew that this program was going to be something unbelievably amazing."

"All my friends were in it and it seem like a fun atmosphere to work together to make something great."

"I wanted to get into robotics to learn about engineering, and to figure out what my technological interests were. I also saw it as an opportunity to learn what it was like to be a part of an engineering team."

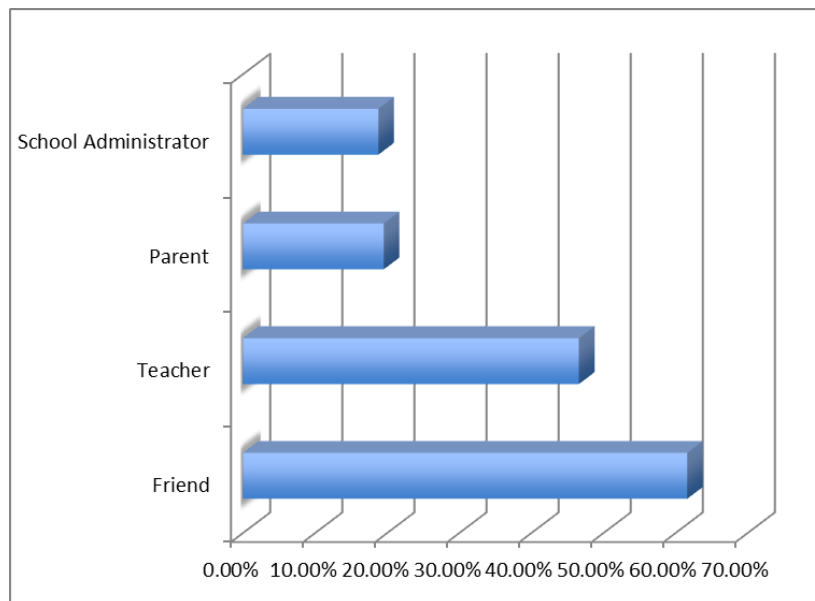
"Because FRC is what I live for. It is my passion, and I would not give it up for the world."

"FRC is great way to expose oneself to an environment that contains high amounts of stress, yet higher amounts of reward. I also enjoy checking out the schools at the competition. Basically, I participate in FRC to enable my future career."

"I enjoy learning how to build robots. The fact that I am one of the only people on my team with knowledge of electronics makes me feel needed and important. I also immensely enjoyed the competition, not for competition's sake but so I could look at other robots and see where we could improve in future years. Just the fact that there is a program that allows me to learn about these things I'm interested in is amazing, and I wouldn't miss participation in an opportunity like this for the world. "

"I really loved the atmosphere and the people when I first tried out robotics. I was hooked within the first hour and the mentors were so kind and there was so much to learn. At the time, I wasn't sure as to what I wanted to do with my life, however robotics soon showed me the world of engineering. Eventually, the build season started, and it was tiring but also wonderful to work and be part of the team. The competition was amazing and I had a great deal of fun. I also loved the concept of cooperation and gracious professionalism that FRC showcased. Come senior year, I just had to participate again. My biggest regret as I head off to college is not knowing about robotics to join in 9th grade."

The final question looked at how students learned about FTC and FRC; the data is represented by the following graph. The majority of students indicated that they were encouraged to participate by a friend or teacher. Other responses mentioned learning about FIRST programs at activity nights for middle school kids, a school club fair, in after-school activity listings, or through demos or promotions at FLL regional competitions.



Recommendation

In terms of FTC and FRC structure, students seemed to enjoy the “JV” aspect of FTC as a first-year stepping stone before entering FRC in a “varsity” capacity. Free responses showed that those who moved up within this structure generally felt more comfortable in FRC and more prepared for the many challenges. We were unsure if all schools structure their program in this manner, but it appears to be something to consider permanently given the general level of recommendation by students.

In terms of informational distribution for the programs, friends were the majority of the reason behind initial participation; however many students stated that activity nights and club fairs or listings, as well as demos and promotions at the FLL regional competition helped draw them to the programs. Any advertising being done currently within the schools and at FLL competitions is working as a way to introduce students to the programs. Therefore we encourage continuation of these practices. If FIRST has flyers or handouts with descriptions and logos available these should be placed in school career centers or guidance counselor offices, as well as front offices. The FLL survey indicated that exposure was an issue at the younger levels, so we would encourage FTC and FRC informational brochures to be placed at middle school locations as well.

Finally, from the surveys we sense that disconnect exists between FLL and the upper level FIRST. To address this, we propose implementation of a mentor system. If FTC and FRC participants would be willing, a mentor relationship between the two programs could have a profound effect on future participation. FLL students could attend one or two FTC or FRC team meetings during their season to meet the older students and see their robots first hand, perhaps even joining in some of the process. In return FTC and FRC participants would attend at least one FLL meeting to help the students with their constructions. Younger students enjoy being engaged by their older peers and would hopefully become motivated to continue with the program. In return, the older students would be supporting the future of FTC and FRC, while further boosting their college resumes with a mentorship component.

IV. CONCLUSION

During our analysis of the program we found that FIRST has many very willing and very excited participants. Clearly the program is very beneficial to those participating, and given the large numbers of students engaged in FLL there is a real opportunity for improvement in the growth rate of FTC and FRC. Awareness at the lower levels is crucial. Given that 84% of those surveyed in the higher levels did not participate in FLL, there is a lack of natural progression occurring. We realize that some of this is generated by the transition from middle school to high school and the change in schools, but the opportunity exists to capture the lost FLL participants through more advertising at both school levels and encouragement to attend the higher level competitions. Targeting the 10-12 year old FLL participants now could lead to real benefits in the higher levels later. These kids seem motivated and excited and if FIRST can use this momentum to continue to generate interest they can certainly increase participation levels in FTC and FRC.

APPENDIX

FLL SURVEY

FLL SURVEY RESPONSES

FTC AND FRC SURVEY

FTC AND FRC SURVEY RESPONSES

Colorado FIRST Lego League

Exit this survey



We greatly appreciate your time and input. The survey should take approximately 5 minutes of your time.

1. I have learned a lot about science, technology, engineering, and/or math from FIRST Lego League.

I Strongly Disagree I Disagree Undecided I Agree I Strongly Agree

Please choose one of the following:

2. I think that FIRST Tech Challenge and FIRST Robotics Competition will be more difficult than FIRST Lego League.

I Strongly Disagree I Disagree Undecided I Agree I Strongly Agree

Please choose one of the following:

3. I think that my experience in FIRST Lego League will help me in FIRST Tech Challenge and FIRST Robotics Competition.

I Strongly Disagree I Disagree Undecided I Agree I Strongly Agree

Please choose one of the following:

4. I want to spend more time in FIRST Lego League activities.

I Strongly Disagree I Disagree Undecided I Agree I Strongly Agree

Please choose one of the following:

5. FIRST Lego League takes up too much time.

I Strongly Disagree I Disagree Undecided I Agree I Strongly Agree

Please choose one of

the following:

6. I have heard about FIRST Tech Challenge and FIRST Robotics Competition.

Yes

No

I don't know

I don't remember

7. I have attended a competition for either FIRST Tech Challenge or FIRST Robotic Competition.

Yes

No

I haven't but I want to

8. I plan on participating in FIRST Tech Challenge and FIRST Robotics Competition.

Yes

No

I don't know

I haven't decided

9. I am involved in after-school activities other than FIRST Lego League

Yes

No

10. If you answered "yes" to question 9, which activity or activities?

You may choose more than one.

Sports

Music

Art/Theater

Science (other than FIRST Lego League)

Other (please specify)

11. If I had to choose, I would participate in FIRST Lego League over other after-school activities.

Yes

No

I don't know

12. Would you prefer to participate in FIRST Tech Challenge and FIRST Robotics Competition with your current teammates?

Yes

No

I haven't thought about it

That's not important to me

13. Do your current teammates plan on participating in FIRST Tech Challenge or FIRST Robotics Competition?

Yes

No

I don't know

14. It is important to me that I am involved in a similar activity to FIRST Lego League when I am in High School.

Yes

No

It is not important to me

15. What is your age?

9

10

11

12

13

14

15

16

16. Please indicate your gender

Male

Female

17. What grade are you currently in?

4th

5th

6th

7th

8th

18. How many years have you participated in the FIRST Lego League?

1

2

3

4

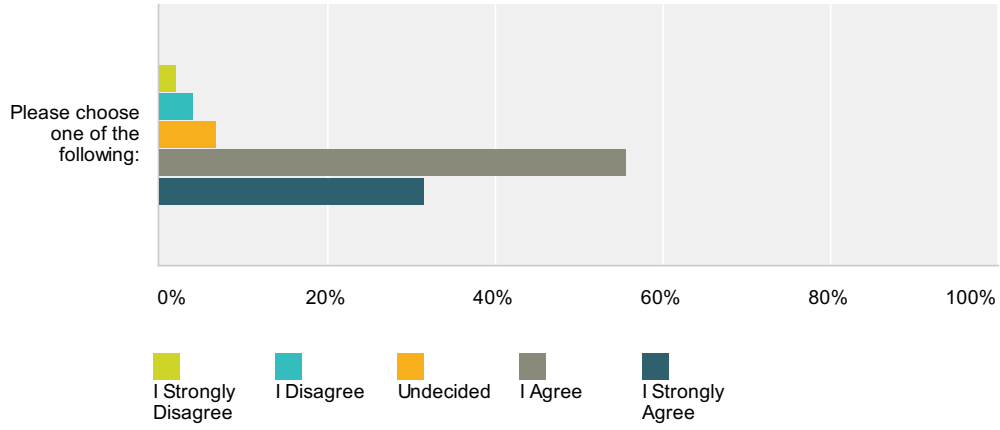
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19. What school do you attend?

Powered by [SurveyMonkey](#)
Check out our [sample surveys](#) and create your own now!

Q1 I have learned a lot about science, technology, engineering, and/or math from FIRST Lego League.

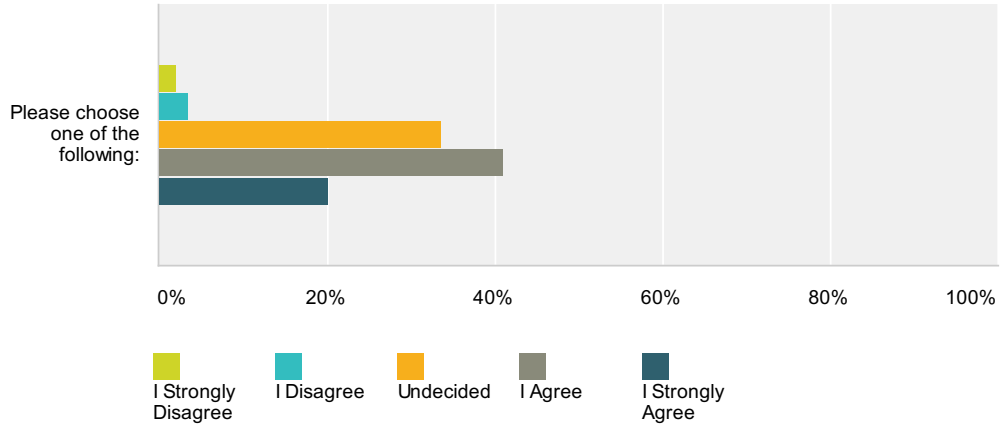
Answered: 149 Skipped: 0



	I Strongly Disagree	I Disagree	Undecided	I Agree	I Strongly Agree	Total
Please choose one of the following:	2.01% 3	4.03% 6	6.71% 10	55.70% 83	31.54% 47	149

Q2 I think that FIRST Tech Challenge and FIRST Robotics Competition will be more difficult than FIRST Lego League.

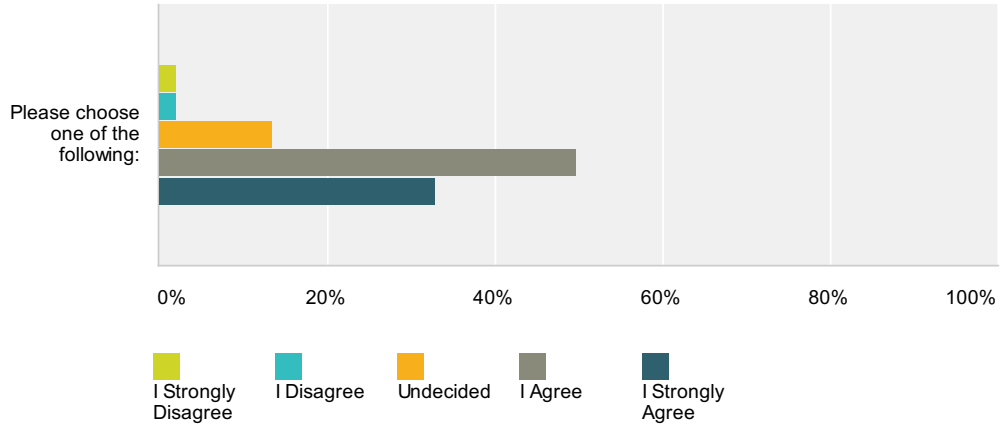
Answered: 149 Skipped: 0



	I Strongly Disagree	I Disagree	Undecided	I Agree	I Strongly Agree	Total
Please choose one of the following:	2.01% 3	3.36% 5	33.56% 50	40.94% 61	20.13% 30	149

Q3 I think that my experience in FIRST Lego League will help me in FIRST Tech Challenge and FIRST Robotics Competition.

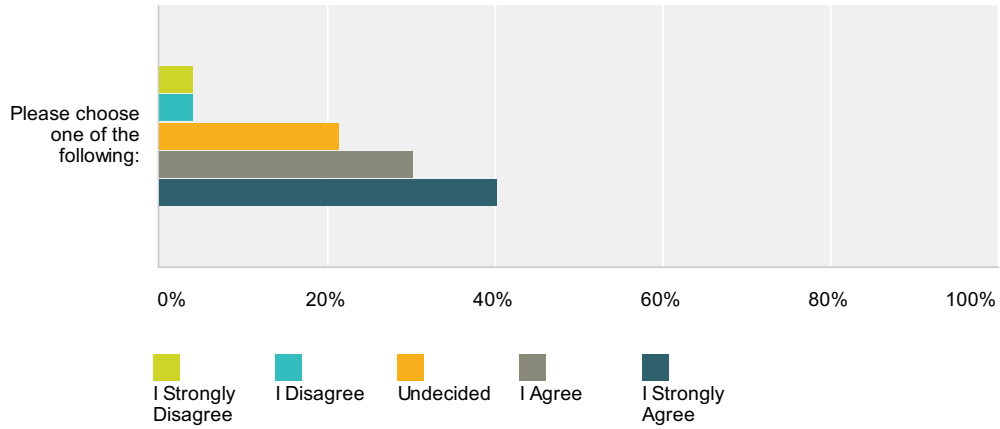
Answered: 149 Skipped: 0



	I Strongly Disagree	I Disagree	Undecided	I Agree	I Strongly Agree	Total
Please choose one of the following:	2.01% 3	2.01% 3	13.42% 20	49.66% 74	32.89% 49	149

Q4 I want to spend more time in FIRST Lego League activities.

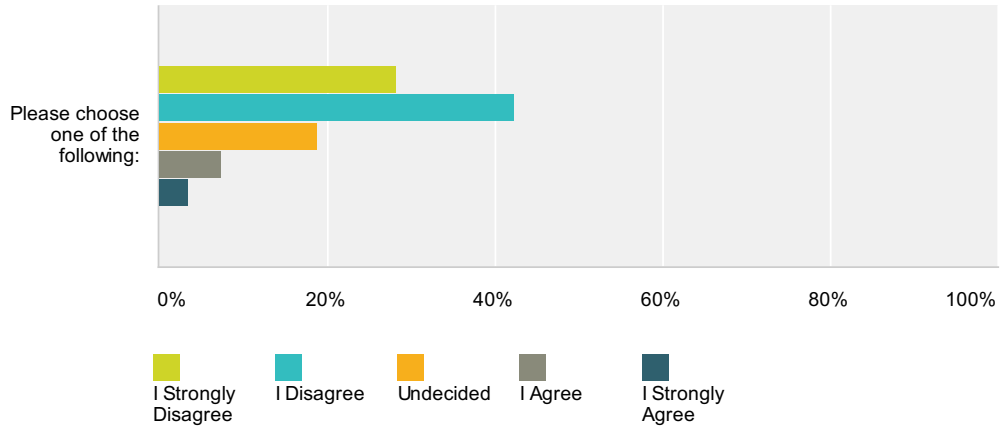
Answered: 149 Skipped: 0



	I Strongly Disagree	I Disagree	Undecided	I Agree	I Strongly Agree	Total
Please choose one of the following:	4.03% 6	4.03% 6	21.48% 32	30.20% 45	40.27% 60	149

Q5 FIRST Lego League takes up too much time.

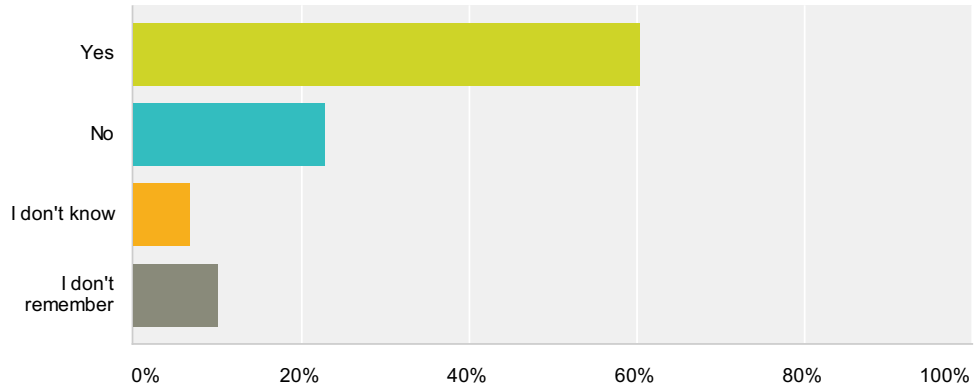
Answered: 149 Skipped: 0



	I Strongly Disagree	I Disagree	Undecided	I Agree	I Strongly Agree	Total
Please choose one of the following:	28.19% 42	42.28% 63	18.79% 28	7.38% 11	3.36% 5	149

Q6 I have heard about FIRST Tech Challenge and FIRST Robotics Competition.

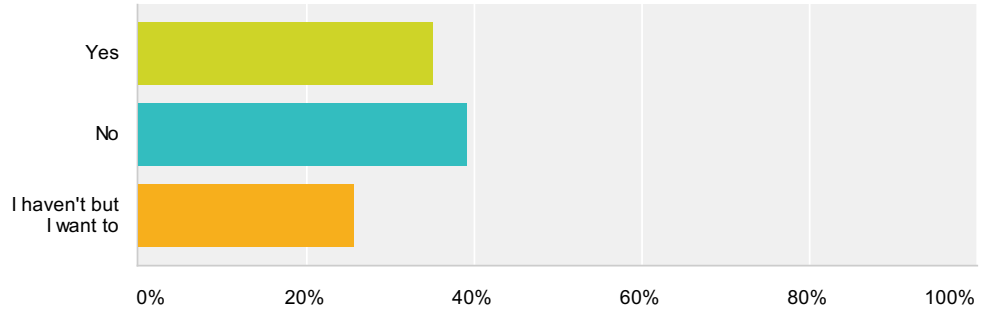
Answered: 149 Skipped: 0



Answer Choices	Responses
Yes	60.40% 90
No	22.82% 34
I don't know	6.71% 10
I don't remember	10.07% 15
Total	149

Q7 I have attended a competition for either FIRST Tech Challenge or FIRST Robotic Competition.

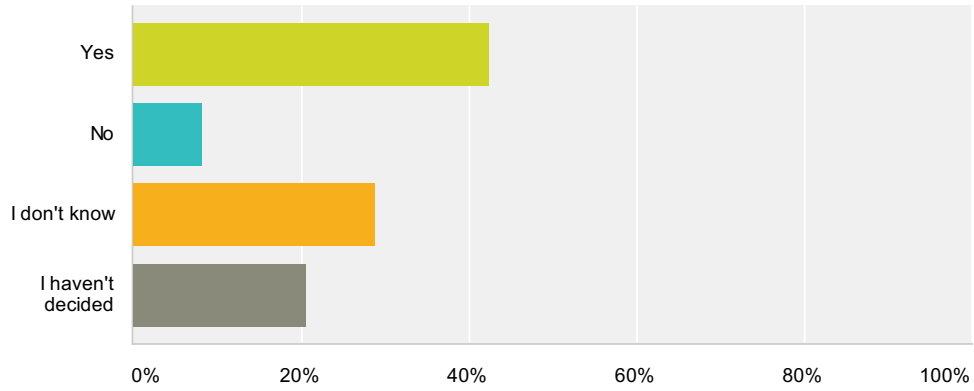
Answered: 148 Skipped: 1



Answer Choices	Responses	
Yes	35.14%	52
No	39.19%	58
I haven't but I want to	25.68%	38
Total		148

Q8 I plan on participating in FIRST Tech Challenge and FIRST Robotics Competition.

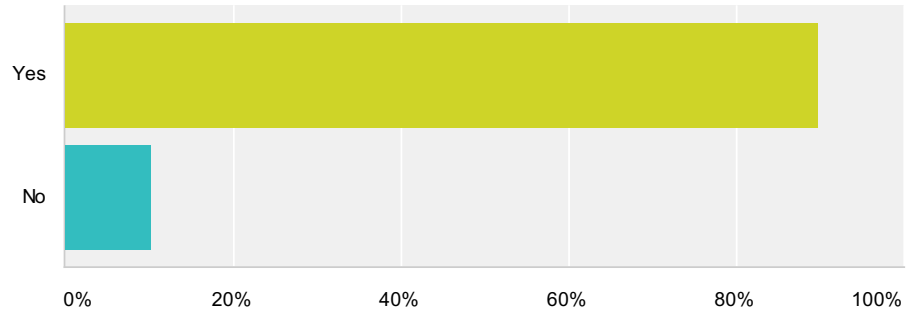
Answered: 146 Skipped: 3



Answer Choices	Responses
Yes	42.47% 62
No	8.22% 12
I don't know	28.77% 42
I haven't decided	20.55% 30
Total	146

Q9 I am involved in after-school activities other than FIRST Lego League

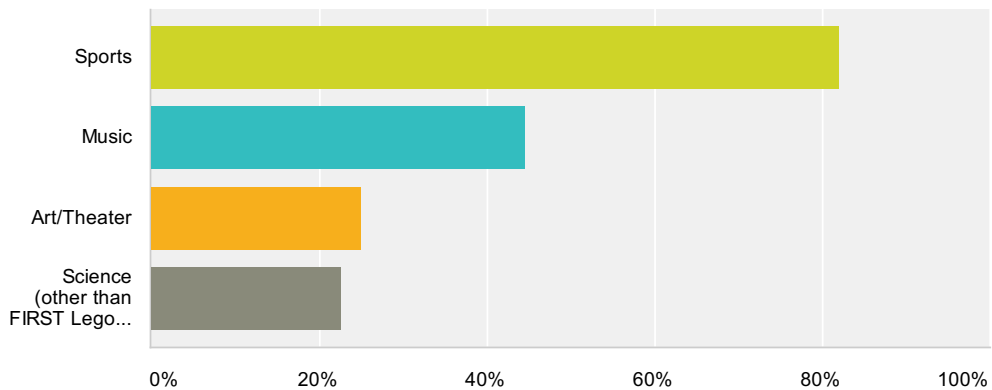
Answered: 147 Skipped: 2



Answer Choices	Responses
Yes	89.80% 132
No	10.20% 15
Total	147

Q10 If you answered "yes" to question 9, which activity or activities? You may choose more than one.

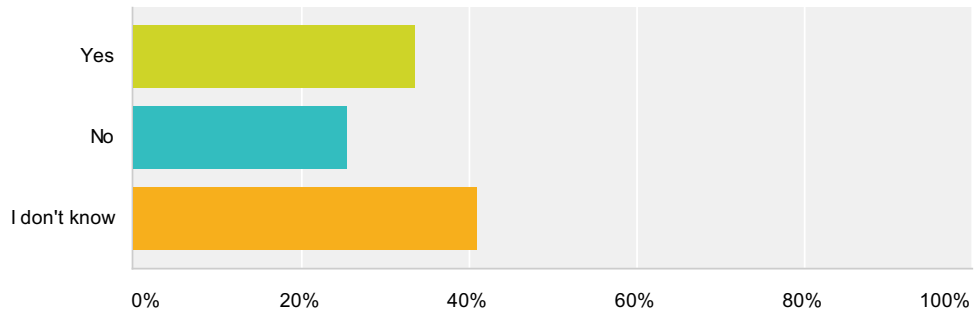
Answered: 128 Skipped: 21



Answer Choices	Responses
Sports	82.03% 105
Music	44.53% 57
Art/Theater	25% 32
Science (other than FIRST Lego League)	22.66% 29
Total Respondents: 128	

Q11 If I had to choose, I would participate in FIRST Lego League over other after-school activities.

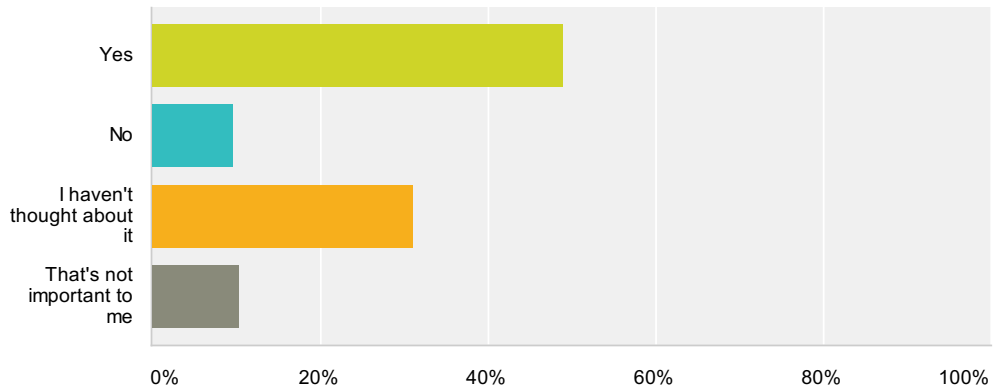
Answered: 149 Skipped: 0



Answer Choices	Responses	
Yes	33.56%	50
No	25.50%	38
I don't know	40.94%	61
Total		149

Q12 Would you prefer to participate in FIRST Tech Challenge and FIRST Robotics Competition with your current teammates?

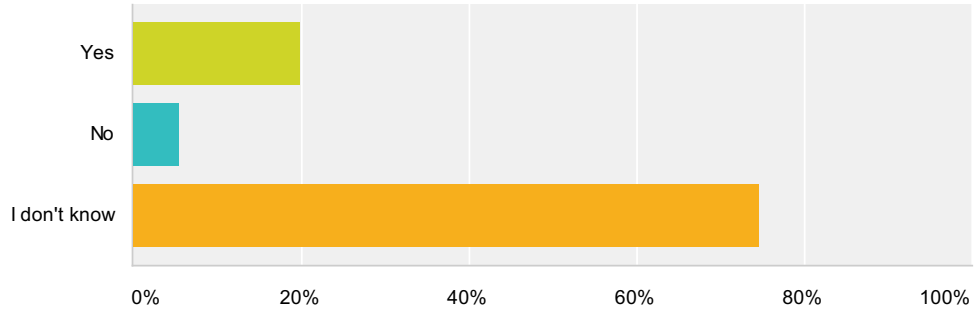
Answered: 145 Skipped: 4



Answer Choices	Responses
Yes	48.97% 71
No	9.66% 14
I haven't thought about it	31.03% 45
That's not important to me	10.34% 15
Total	145

Q13 Do your current teammates plan on participating in FIRST Tech Challenge or FIRST Robotics Competition?

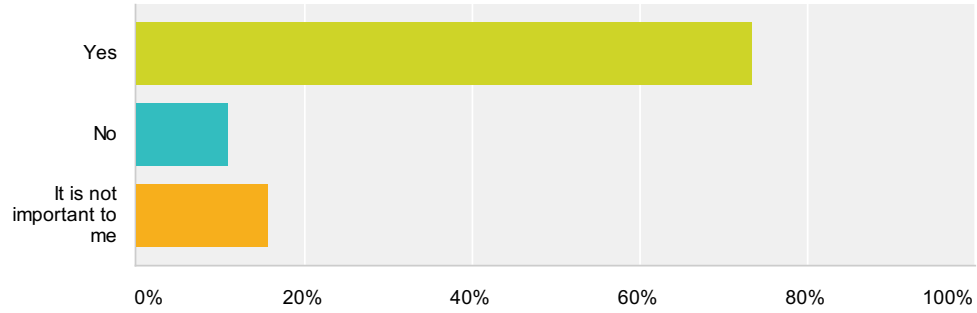
Answered: 146 Skipped: 3



Answer Choices	Responses
Yes	19.86% 29
No	5.48% 8
I don't know	74.66% 109
Total	146

Q14 It is important to me that I am involved in a similar activity to FIRST Lego League when I am in High School.

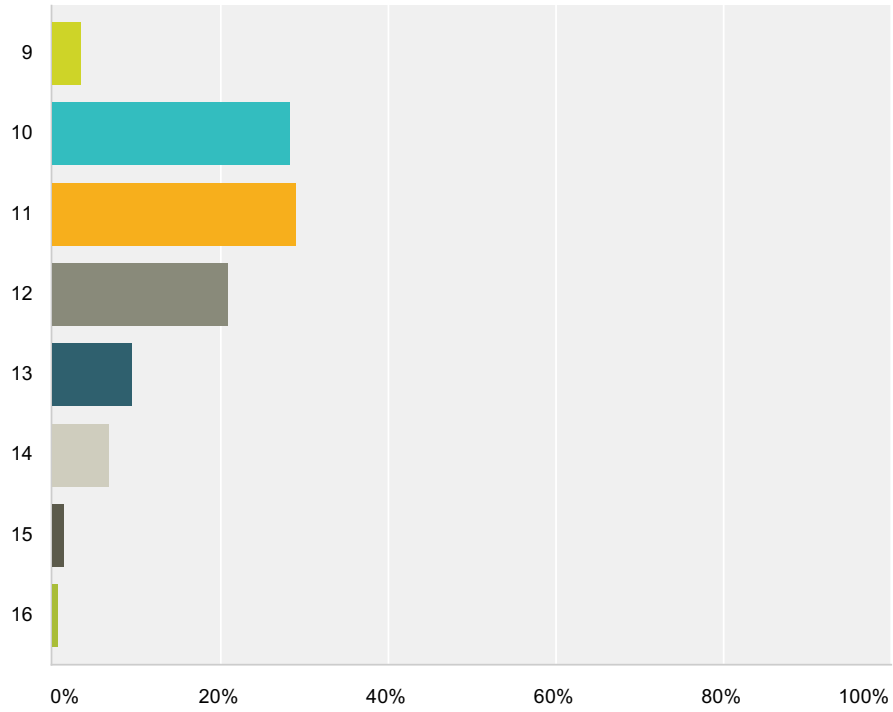
Answered: 147 Skipped: 2



Answer Choices	Responses	
Yes	73.47%	108
No	10.88%	16
It is not important to me	15.65%	23
Total		147

Q15 What is your age?

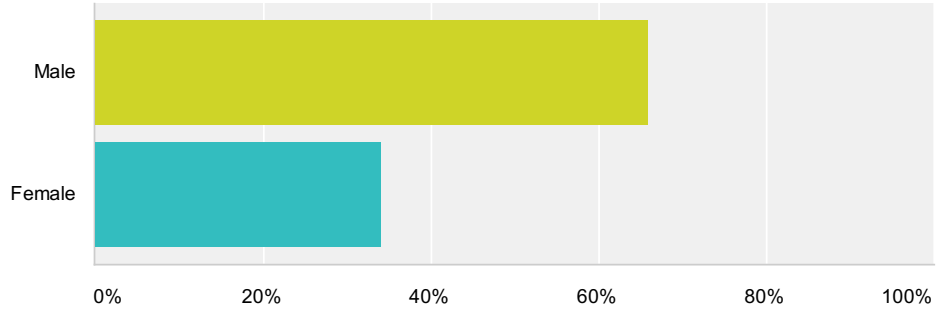
Answered: 148 Skipped: 1



Answer Choices	Responses	
9	3.38%	5
10	28.38%	42
11	29.05%	43
12	20.95%	31
13	9.46%	14
14	6.76%	10
15	1.35%	2
16	0.68%	1
Total		148

Q16 Please indicate your gender

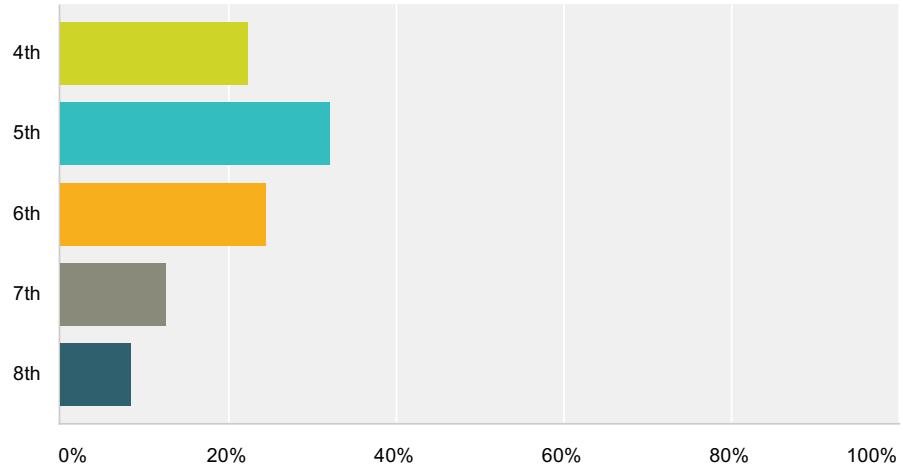
Answered: 147 Skipped: 2



Answer Choices	Responses
Male	65.99% 97
Female	34.01% 50
Total	147

Q17 What grade are you currently in?

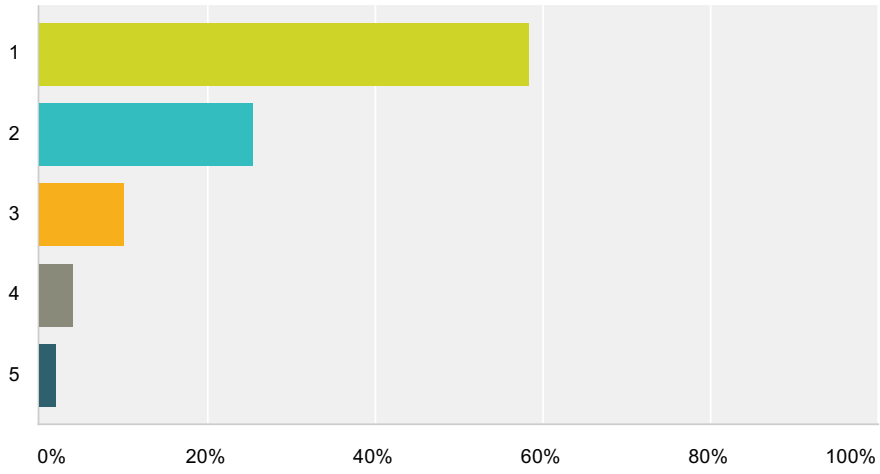
Answered: 143 Skipped: 6



Answer Choices	Responses	
4th	22.38%	32
5th	32.17%	46
6th	24.48%	35
7th	12.59%	18
8th	8.39%	12
Total		143

Q18 How many years have you participated in the FIRST Lego League?

Answered: 149 Skipped: 0



Answer Choices	Responses
1	58.39% 87
2	25.50% 38
3	10.07% 15
4	4.03% 6
5	2.01% 3
Total	149



2013 ColoradoFIRST FRC and FTC Survey

1. What is your age?

- | | |
|----|----|
| 14 | 17 |
| 15 | 18 |
| 16 | |

2. What grade are you currently in?

- 9th
- 10th
- 11th
- 12th

3. Please indicate your gender.

- Male
- Female

4. Did you participate in FIRST Lego League?

- Yes
- No

5. If you answered "no" to question 4, why did you not participate?

After answering please skip to question 7...

- I did not want to
- There was no FLL chapter in my area
- I did not know about it
- Other (please specify)

6. If you answered "yes" to question 4, please continue with the questions below:

I Strongly Agree I Agree I Neither Agree nor Disagree I Disagree I Strongly Disagree

I had a good experience participating in FLL

My FLL team got along well

I feel FLL prepared me for FTC and/or FRC

I would suggest participating in FLL before FTC or FRC

7. Did you participate in, or are you currently participating in FIRST Tech Challenge?

Yes

No

8. If you answered "no" to question 7, why did you not participate?

After answering, please skip to question 10...

I did not want to

There was no FTC chapter in my area

I did not know about FTC

Other (please specify)

9. If you answered "yes" to question 7, please answer the below question:

Why did you choose to participate in FTC?

10. Did you participate in, or are you currently participating in FIRST Robotic Competition?

Yes

No

11. If you answered "no" to question 10, why did you not participate?

After answering, please skip to question 13...

I did not want to

There was no FRC chapter in my area

I did not know about it

Other (please specify)

12. If you answered "yes" to question 10 please answer the question below:

Why did you choose to participate in FRC?

13. How did you learn about FTC and/or FRC?

Friend

Teacher

Parent

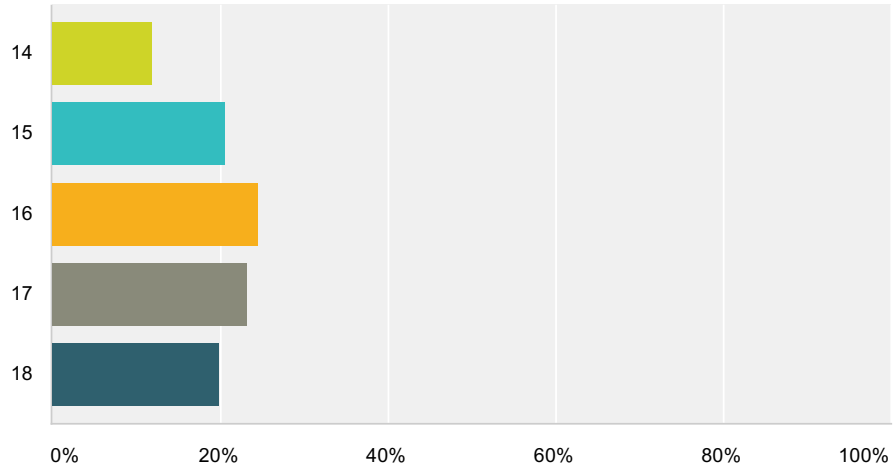
School Administrator

Other (please specify)

14. What school do you attend?

Q1 What is your age?

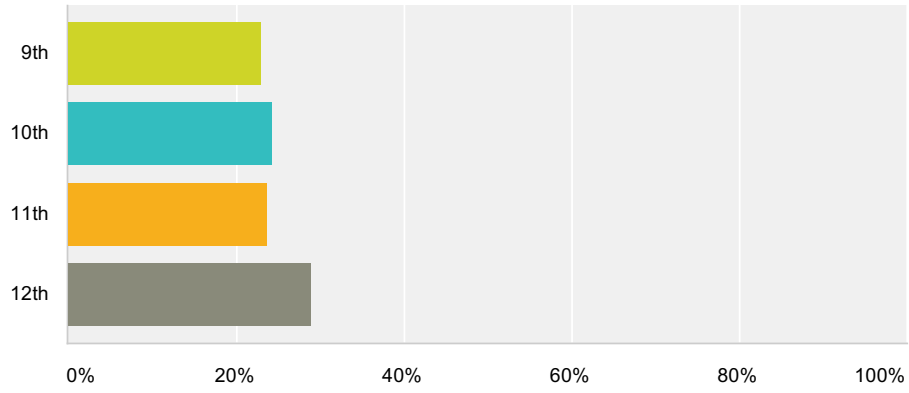
Answered: 151 Skipped: 2



Answer Choices	Responses	
14	11.92%	18
15	20.53%	31
16	24.50%	37
17	23.18%	35
18	19.87%	30
Total		151

Q2 What grade are you currently in?

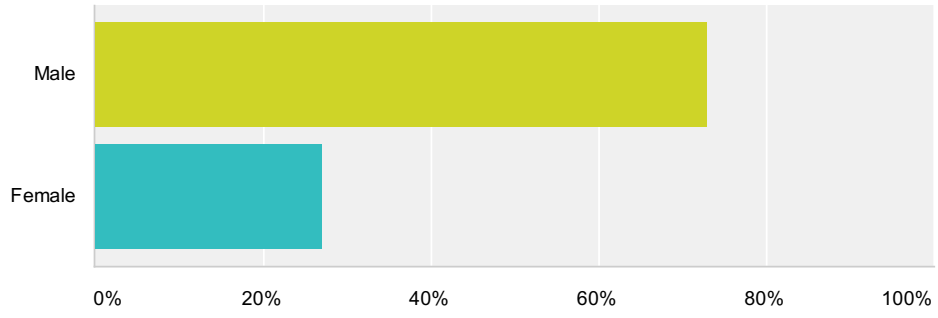
Answered: 152 Skipped: 1



Answer Choices	Responses	
9th	23.03%	35
10th	24.34%	37
11th	23.68%	36
12th	28.95%	44
Total		152

Q3 Please indicate your gender.

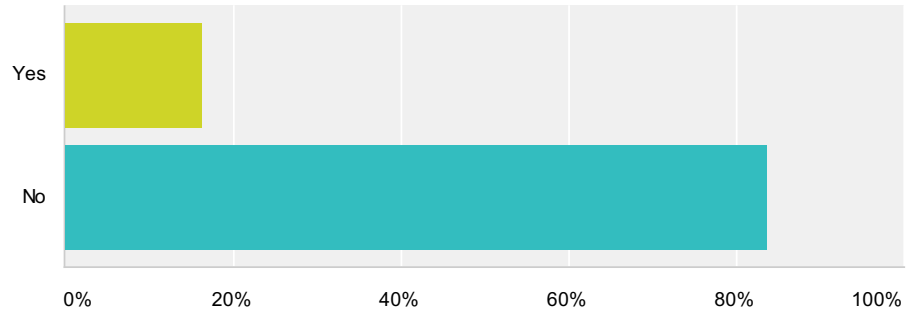
Answered: 152 Skipped: 1



Answer Choices	Responses
Male	73.03% 111
Female	26.97% 41
Total	152

Q4 Did you participate in FIRST Lego League?

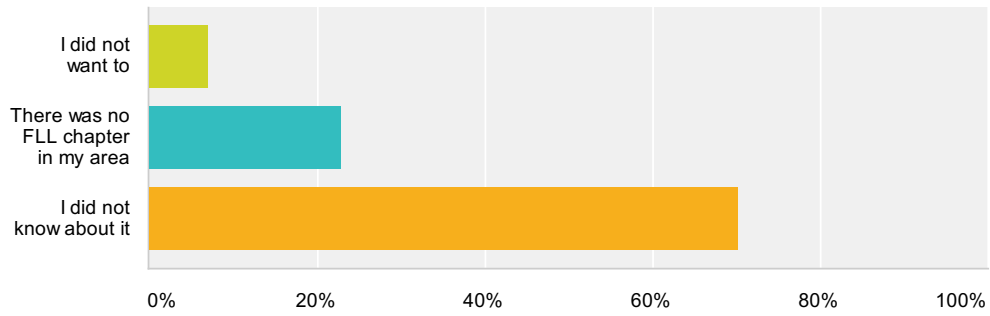
Answered: 153 Skipped: 0



Answer Choices	Responses	
Yes	16.34%	25
No	83.66%	128
Total		153

Q5 If you answered "no" to question 4, why did you not participate? After answering please skip to question 7...

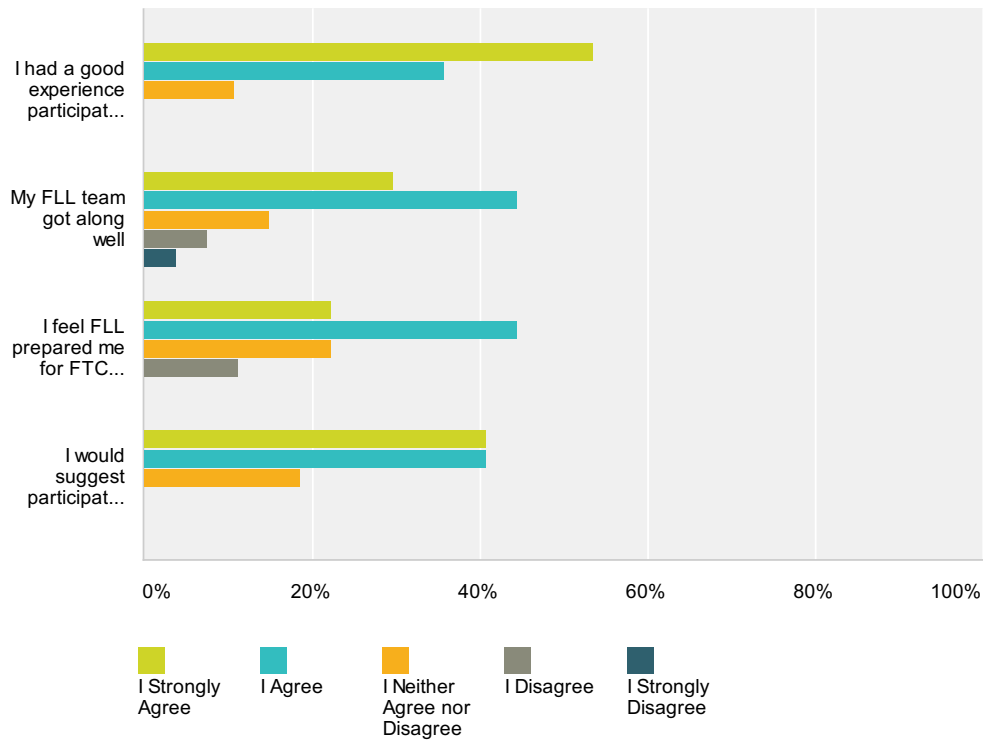
Answered: 114 Skipped: 39



Answer Choices	Responses
I did not want to	7.02% 8
There was no FLL chapter in my area	22.81% 26
I did not know about it	70.18% 80
Total	114

Q6 If you answered "yes" to question 4, please continue with the questions below:

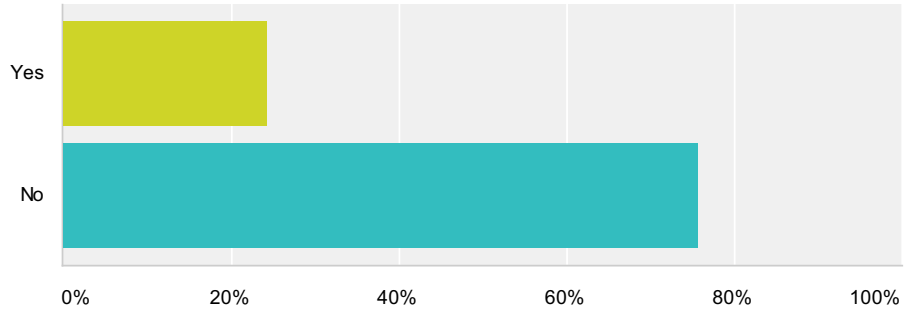
Answered: 28 Skipped: 125



	I Strongly Agree	I Agree	I Neither Agree nor Disagree	I Disagree	I Strongly Disagree	Total
I had a good experience participating in FLL	53.57% 15	35.71% 10	10.71% 3	0% 0	0% 0	28
My FLL team got along well	29.63% 8	44.44% 12	14.81% 4	7.41% 2	3.70% 1	27
I feel FLL prepared me for FTC and/or FRC	22.22% 6	44.44% 12	22.22% 6	11.11% 3	0% 0	27
I would suggest participating in FLL before FTC or FRC	40.74% 11	40.74% 11	18.52% 5	0% 0	0% 0	27

Q7 Did you participate in, or are you currently participating in FIRST Tech Challenge?

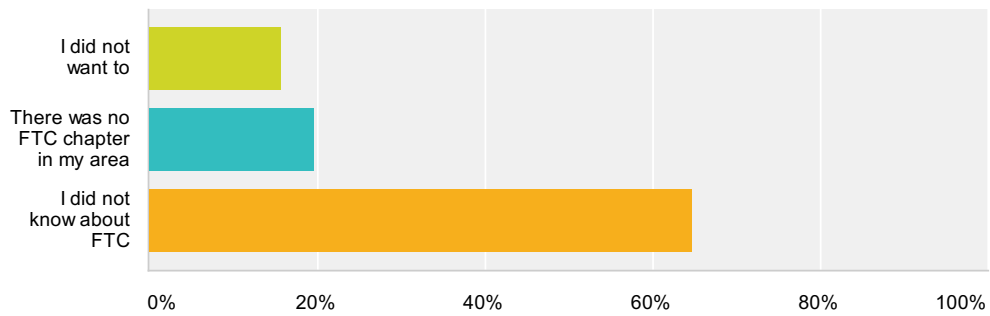
Answered: 152 Skipped: 1



Answer Choices	Responses
Yes	24.34% 37
No	75.66% 115
Total	152

Q8 If you answered "no" to question 7, why did you not participate? After answering, please skip to question 10...

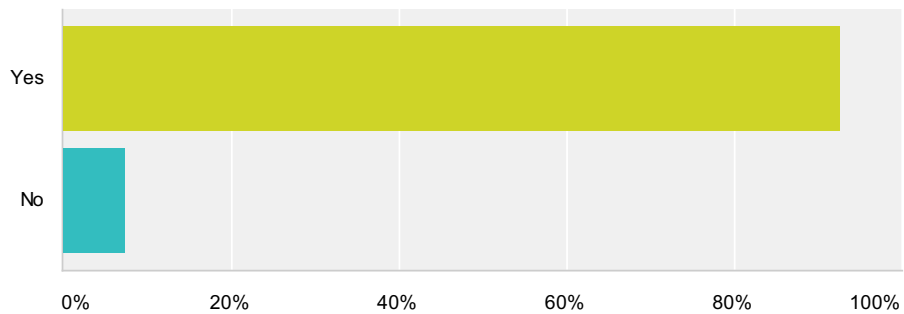
Answered: 102 Skipped: 51



Answer Choices	Responses
I did not want to	15.69% 16
There was no FTC chapter in my area	19.61% 20
I did not know about FTC	64.71% 66
Total	102

Q10 Did you participate in, or are you currently participating in FIRST Robotic Competition?

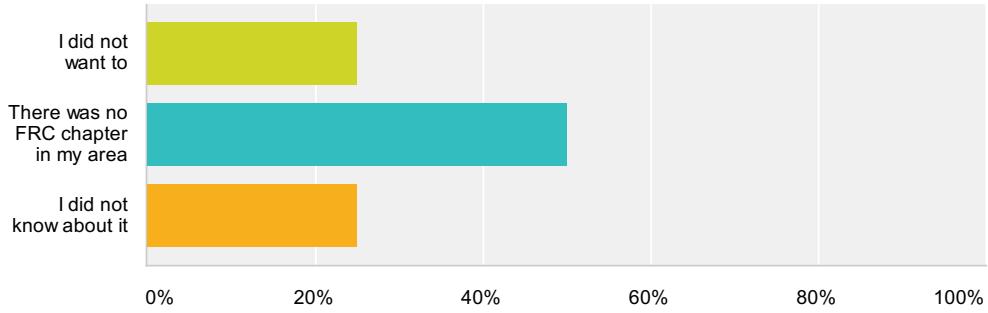
Answered: 150 Skipped: 3



Answer Choices	Responses	
Yes	92.67%	139
No	7.33%	11
Total		150

Q11 If you answered "no" to question 10, why did you not participate? After answering, please skip to question 13...

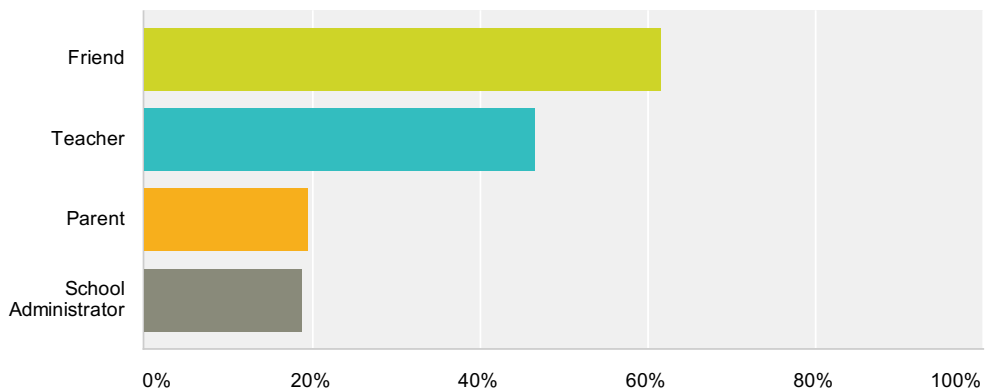
Answered: 8 Skipped: 145



Answer Choices	Responses	
I did not want to	25%	2
There was no FRC chapter in my area	50%	4
I did not know about it	25%	2
Total		8

Q13 How did you learn about FTC and/or FRC?

Answered: 133 Skipped: 20



Answer Choices	Responses
Friend	61.65% 82
Teacher	46.62% 62
Parent	19.55% 26
School Administrator	18.80% 25
Total Respondents: 133	