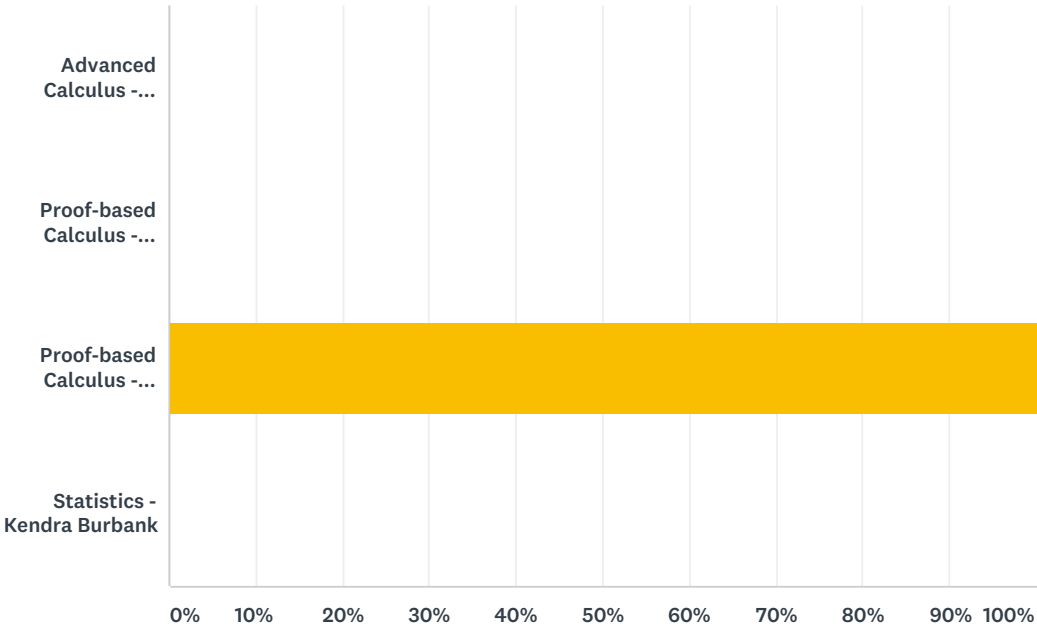


Q36 What math course did you take?

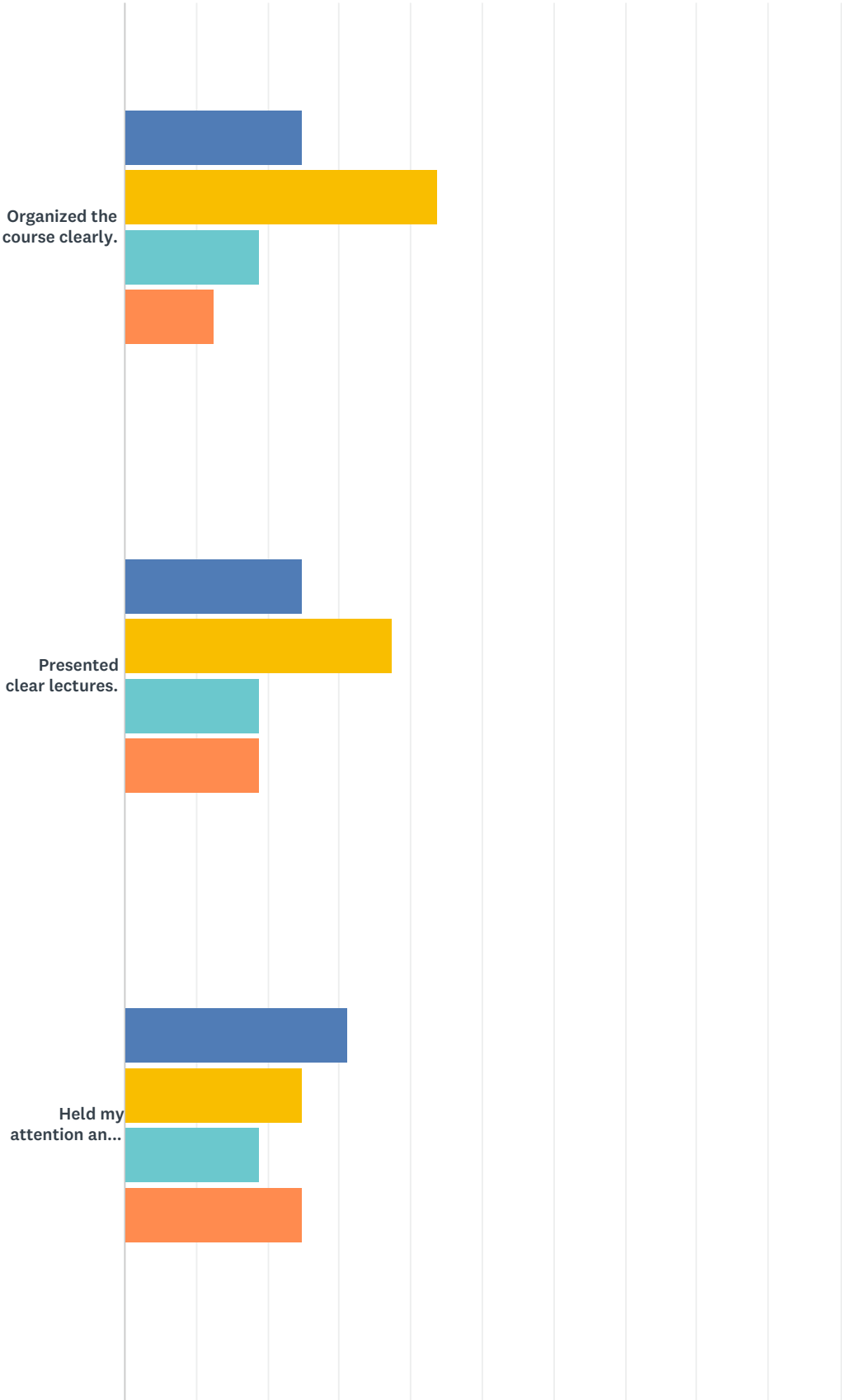
Answered: 16    Skipped: 0

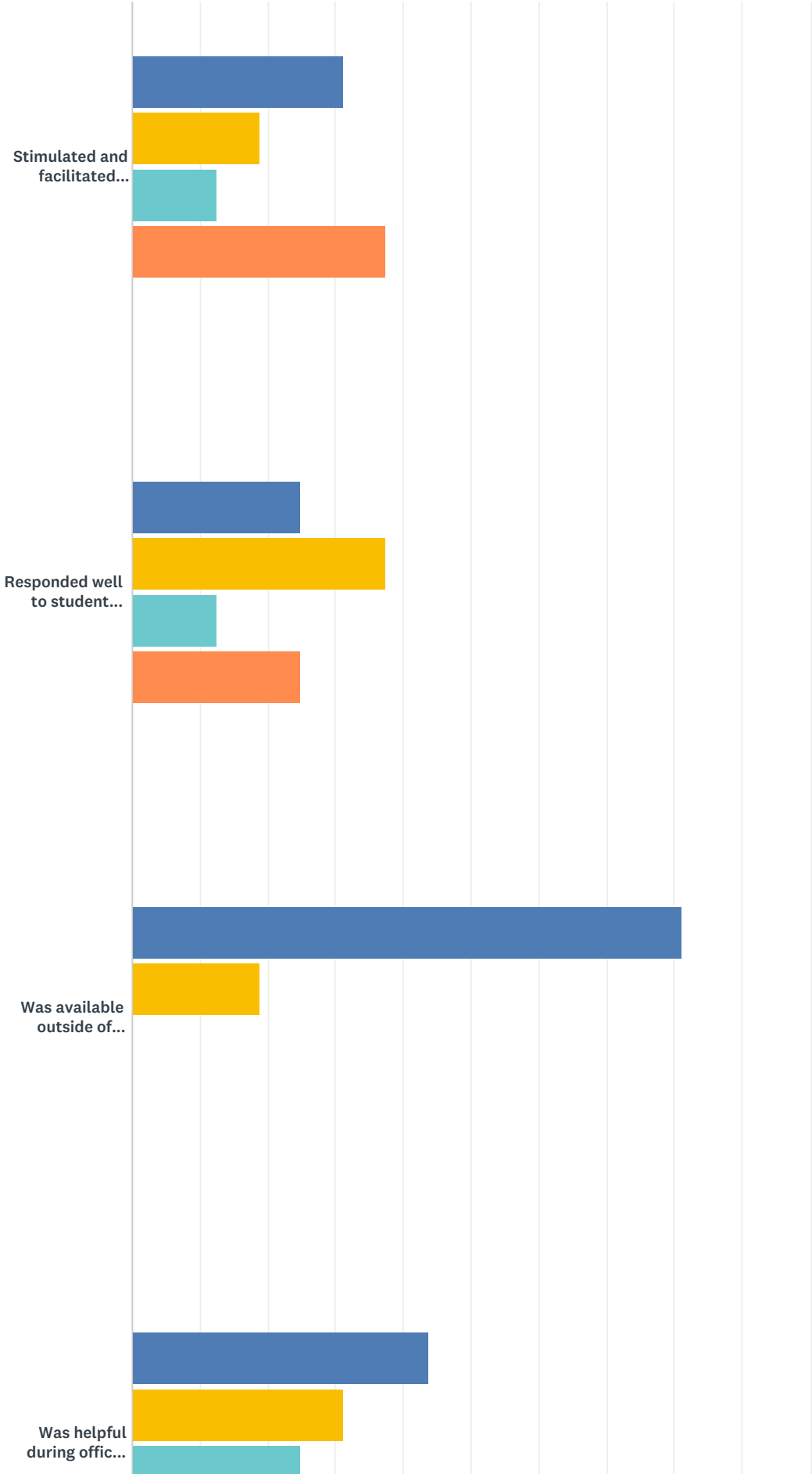


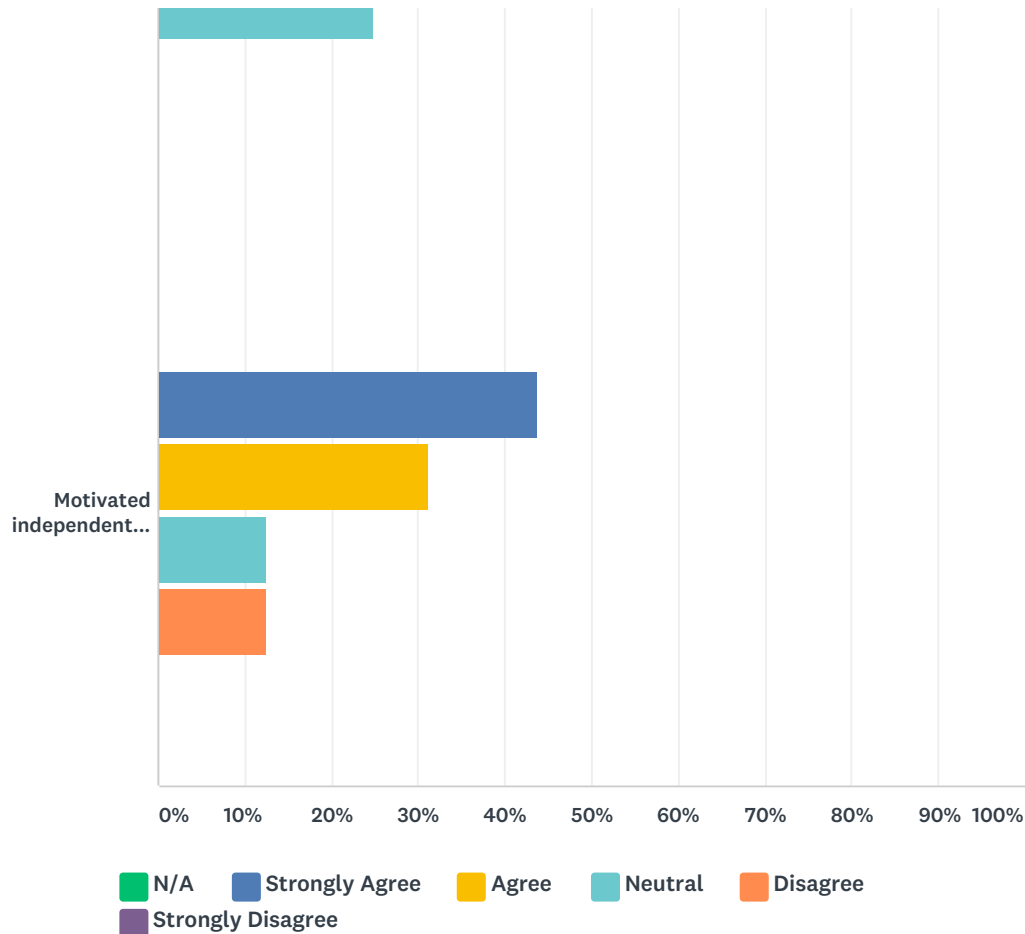
| ANSWER CHOICES                            |  | RESPONSES |    |
|---|--|-----------|----|
| Advanced Calculus - Yulun Wang            |  | 0.00%     | 0  |
| Proof-based Calculus - Jonathan Rubin     |  | 0.00%     | 0  |
| Proof-based Calculus - Subhadip Chowdhury |  | 100.00%   | 16 |
| Statistics - Kendra Burbank               |  | 0.00%     | 0  |
| TOTAL                                     |  |           | 16 |

Q37 The instructor:

Answered: 16   Skipped: 0



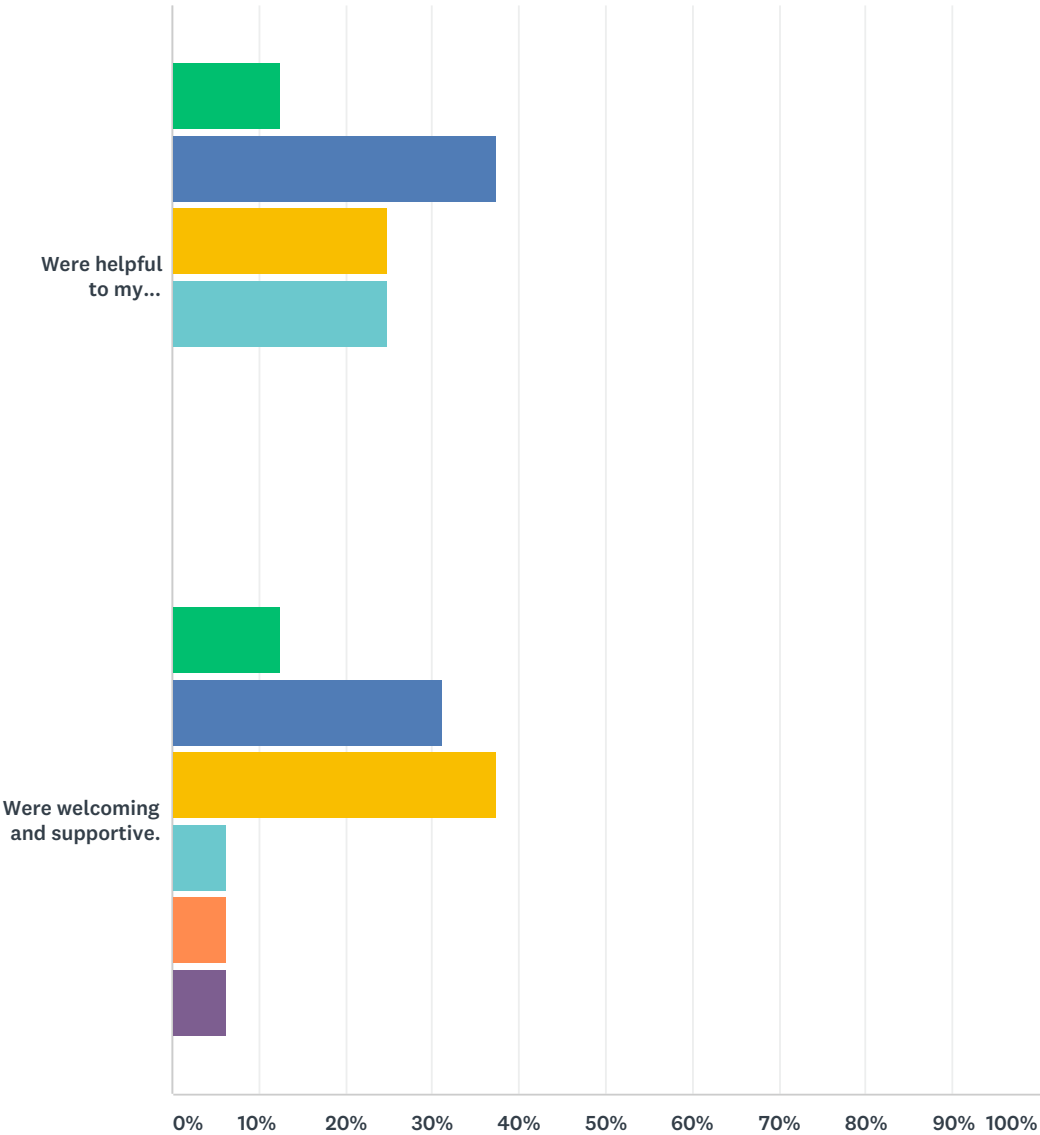




|   | N/A        | STRONGLY AGREE | AGREE       | NEUTRAL     | DISAGREE    | STRONGLY DISAGREE | TOTAL |
|---|------------|----------------|-------------|-------------|-------------|-------------------|-------|
| Organized the course clearly.                         | 0.00%<br>0 | 25.00%<br>4    | 43.75%<br>7 | 18.75%<br>3 | 12.50%<br>2 | 0.00%<br>0        | 16    |
| Presented clear lectures.                             | 0.00%<br>0 | 25.00%<br>4    | 37.50%<br>6 | 18.75%<br>3 | 18.75%<br>3 | 0.00%<br>0        | 16    |
| Held my attention and made this course interesting.   | 0.00%<br>0 | 31.25%<br>5    | 25.00%<br>4 | 18.75%<br>3 | 25.00%<br>4 | 0.00%<br>0        | 16    |
| Stimulated and facilitated questions and discussions. | 0.00%<br>0 | 31.25%<br>5    | 18.75%<br>3 | 12.50%<br>2 | 37.50%<br>6 | 0.00%<br>0        | 16    |
| Responded well to student questions.                  | 0.00%<br>0 | 25.00%<br>4    | 37.50%<br>6 | 12.50%<br>2 | 25.00%<br>4 | 0.00%<br>0        | 16    |
| Was available outside of class.                       | 0.00%<br>0 | 81.25%<br>13   | 18.75%<br>3 | 0.00%<br>0  | 0.00%<br>0  | 0.00%<br>0        | 16    |
| Was helpful during office hours.                      | 0.00%<br>0 | 43.75%<br>7    | 31.25%<br>5 | 25.00%<br>4 | 0.00%<br>0  | 0.00%<br>0        | 16    |
| Motivated independent thinking.                       | 0.00%<br>0 | 43.75%<br>7    | 31.25%<br>5 | 12.50%<br>2 | 12.50%<br>2 | 0.00%<br>0        | 16    |

Q38 Instructor office hours:

Answered: 16    Skipped: 0

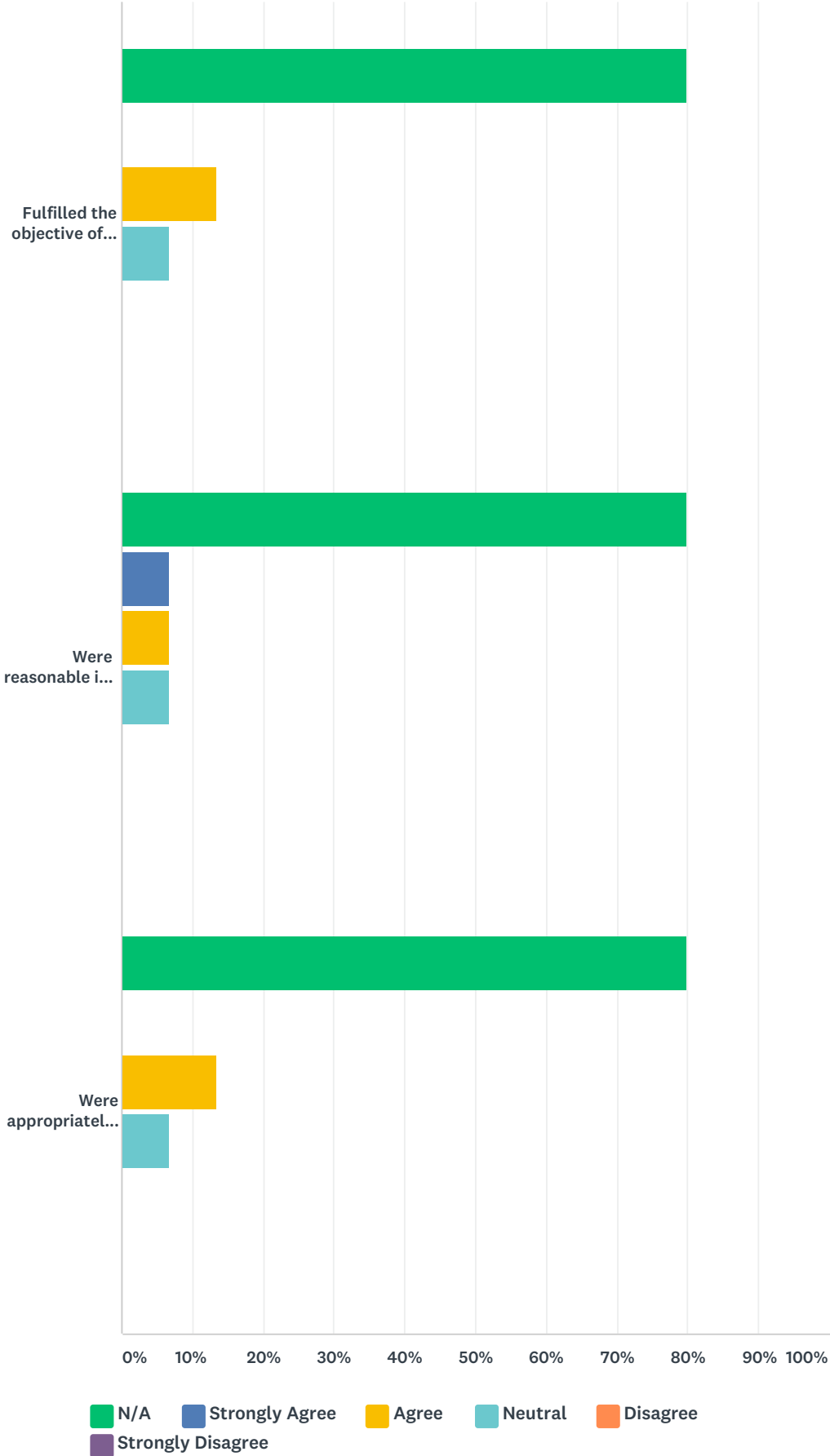


N/A, I did not attend office hours
Strongly Agree
Agree
Neutral
Disagree
Strongly Disagree

|  | N/A, I DID NOT ATTEND OFFICE HOURS | STRONGLY AGREE | AGREE       | NEUTRAL     | DISAGREE   | STRONGLY DISAGREE | TOTAL |
|--|------------------------------------|----------------|-------------|-------------|------------|-------------------|-------|
| Were helpful to my understanding of the course material. | 12.50%<br>2                        | 37.50%<br>6    | 25.00%<br>4 | 25.00%<br>4 | 0.00%<br>0 | 0.00%<br>0        | 16    |
| Were welcoming and supportive.                           | 12.50%<br>2                        | 31.25%<br>5    | 37.50%<br>6 | 6.25%<br>1  | 6.25%<br>1 | 6.25%<br>1        | 16    |

## Q39 The readings:

Answered: 15   Skipped: 1

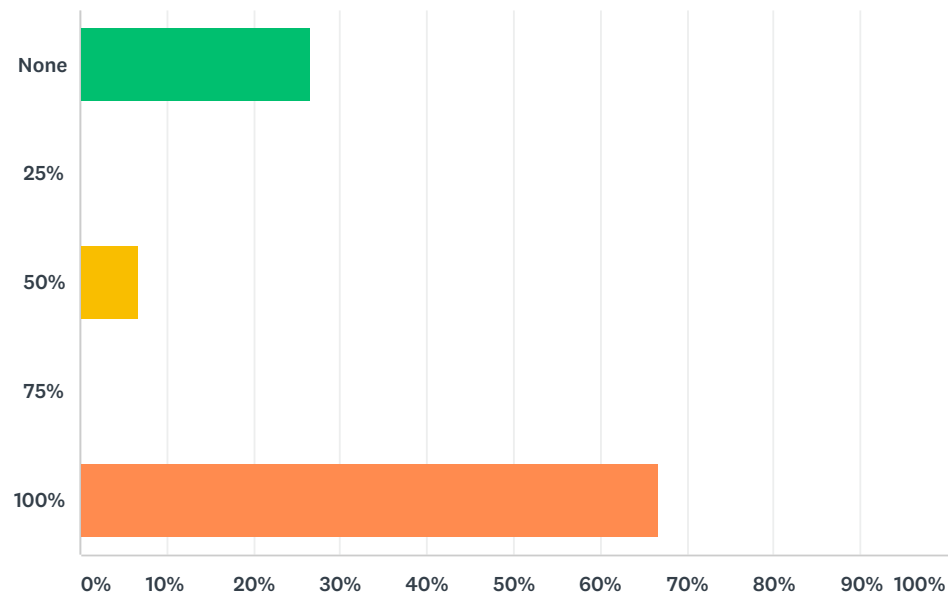


|  | N/A          | STRONGLY<br>AGREE | AGREE       | NEUTRAL    | DISAGREE   | STRONGLY<br>DISAGREE | TOTAL |
|--|--------------|-------------------|-------------|------------|------------|----------------------|-------|
| Fulfilled the objective of the course. | 80.00%<br>12 | 0.00%<br>0        | 13.33%<br>2 | 6.67%<br>1 | 0.00%<br>0 | 0.00%<br>0           | 15    |
| Were reasonable in number.             | 80.00%<br>12 | 6.67%<br>1        | 6.67%<br>1  | 6.67%<br>1 | 0.00%<br>0 | 0.00%<br>0           | 15    |
| Were appropriately difficult.          | 80.00%<br>12 | 0.00%<br>0        | 13.33%<br>2 | 6.67%<br>1 | 0.00%<br>0 | 0.00%<br>0           | 15    |



Q40 Approximately how much of the reading did you do?

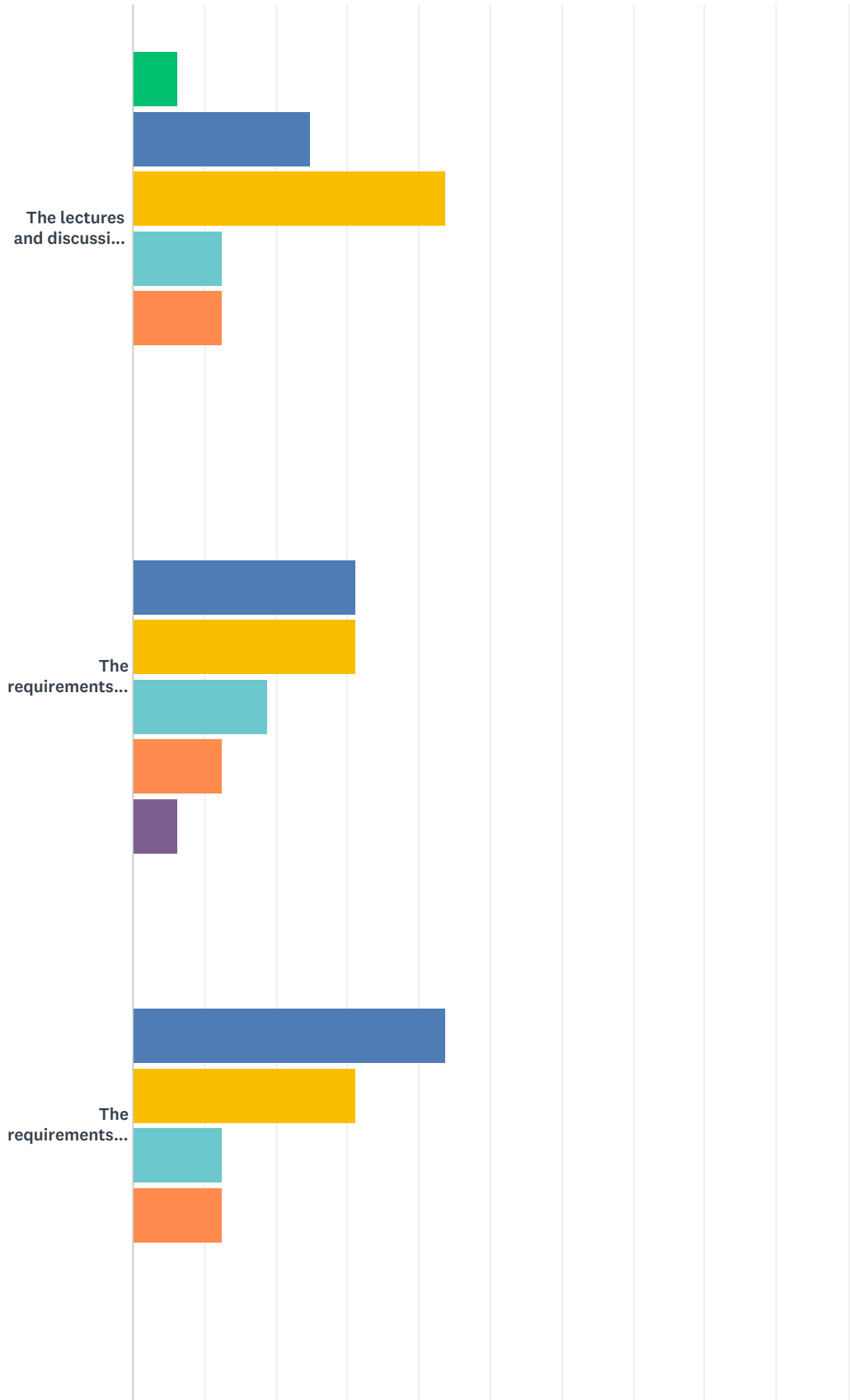
Answered: 15    Skipped: 1

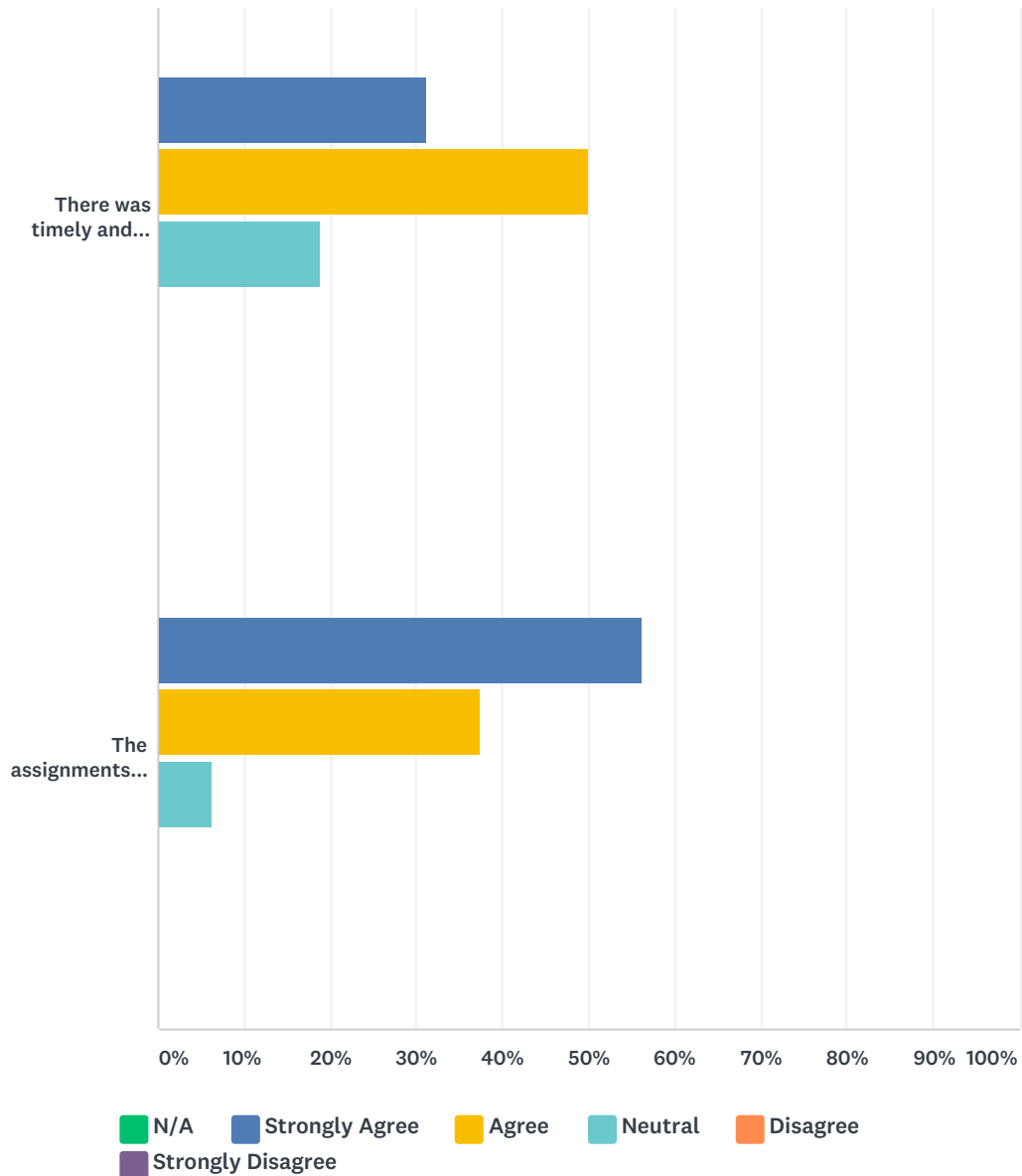


| ANSWER CHOICES |  | RESPONSES |    |
|----------------|--|-----------|----|
| None           |  | 26.67%    | 4  |
| 25%            |  | 0.00%     | 0  |
| 50%            |  | 6.67%     | 1  |
| 75%            |  | 0.00%     | 0  |
| 100%           |  | 66.67%    | 10 |
| TOTAL          |  |           | 15 |

Q41 The assignments:

Answered: 16 Skipped: 0

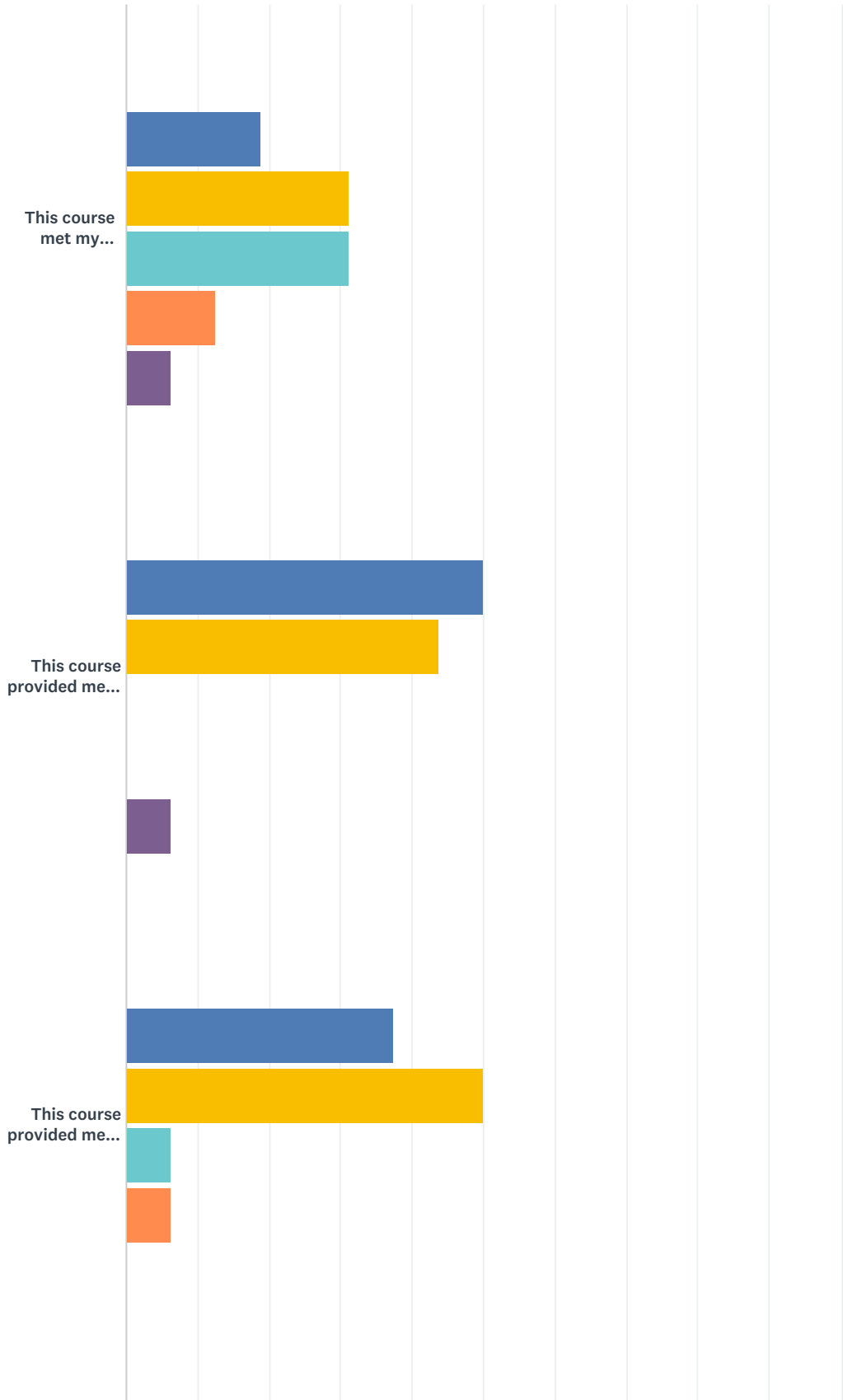


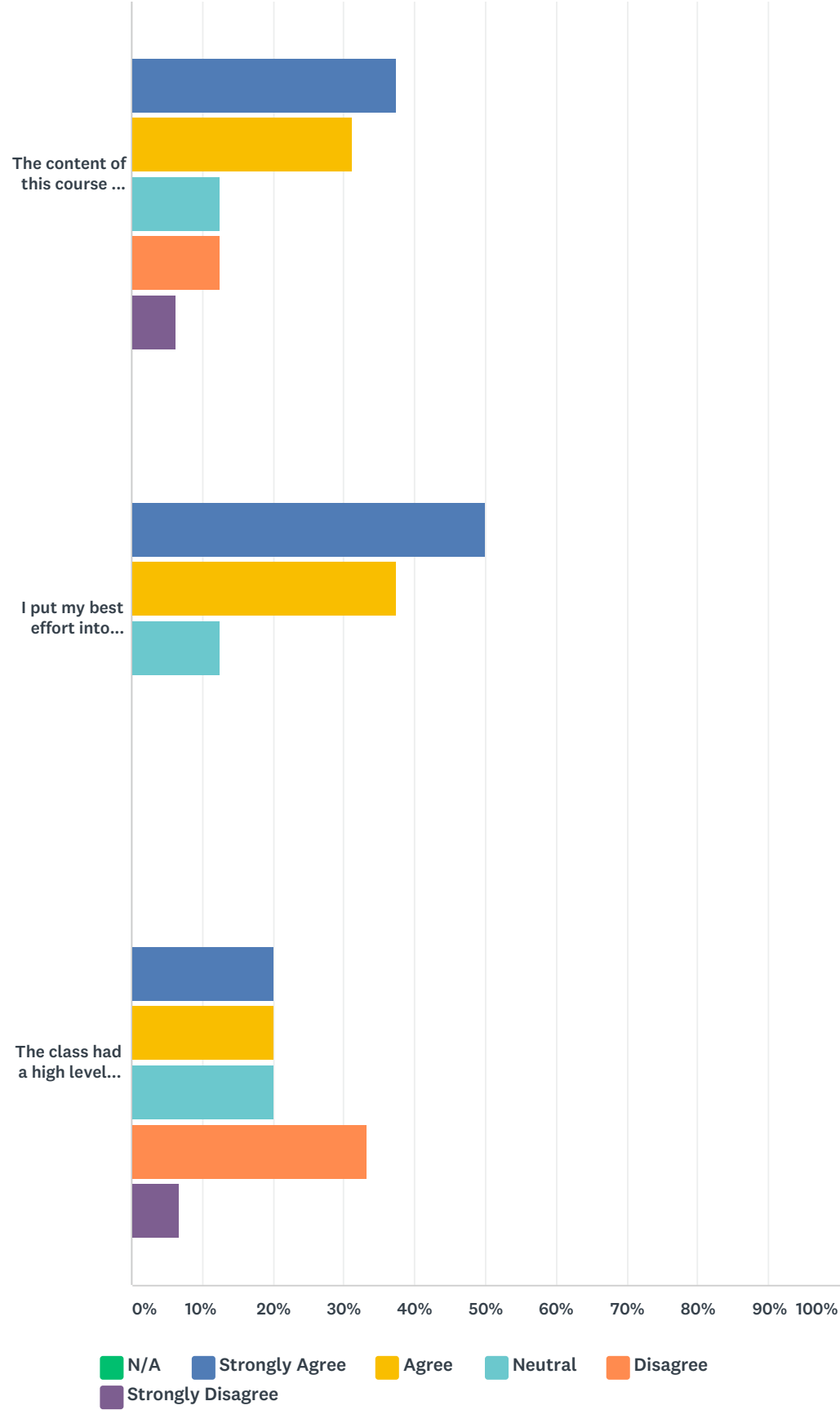


|  | N/A        | STRONGLY AGREE | AGREE       | NEUTRAL     | DISAGREE    | STRONGLY DISAGREE | TOTAL |
|--|------------|----------------|-------------|-------------|-------------|-------------------|-------|
| The lectures and discussions were helpful in preparing for exams and completing assignments. | 6.25%<br>1 | 25.00%<br>4    | 43.75%<br>7 | 12.50%<br>2 | 12.50%<br>2 | 0.00%<br>0        | 16    |
| The requirements of the course were appropriately proportioned to course goals.              | 0.00%<br>0 | 31.25%<br>5    | 31.25%<br>5 | 18.75%<br>3 | 12.50%<br>2 | 6.25%<br>1        | 16    |
| The requirements contributed to the goals of the course.                                     | 0.00%<br>0 | 43.75%<br>7    | 31.25%<br>5 | 12.50%<br>2 | 12.50%<br>2 | 0.00%<br>0        | 16    |
| There was timely and useful was feedback on assignments and exam.                            | 0.00%<br>0 | 31.25%<br>5    | 50.00%<br>8 | 18.75%<br>3 | 0.00%<br>0  | 0.00%<br>0        | 16    |
| The assignments were graded fairly.  | 0.00%<br>0 | 56.25%<br>9    | 37.50%<br>6 | 6.25%<br>1  | 0.00%<br>0  | 0.00%<br>0        | 16    |

Q42 Overall:

Answered: 16    Skipped: 0





|  |     |                |       |         |          |                   |       |
|--|-----|----------------|-------|---------|----------|-------------------|-------|
|  | N/A | STRONGLY AGREE | AGREE | NEUTRAL | DISAGREE | STRONGLY DISAGREE | TOTAL |
|--|-----|----------------|-------|---------|----------|-------------------|-------|

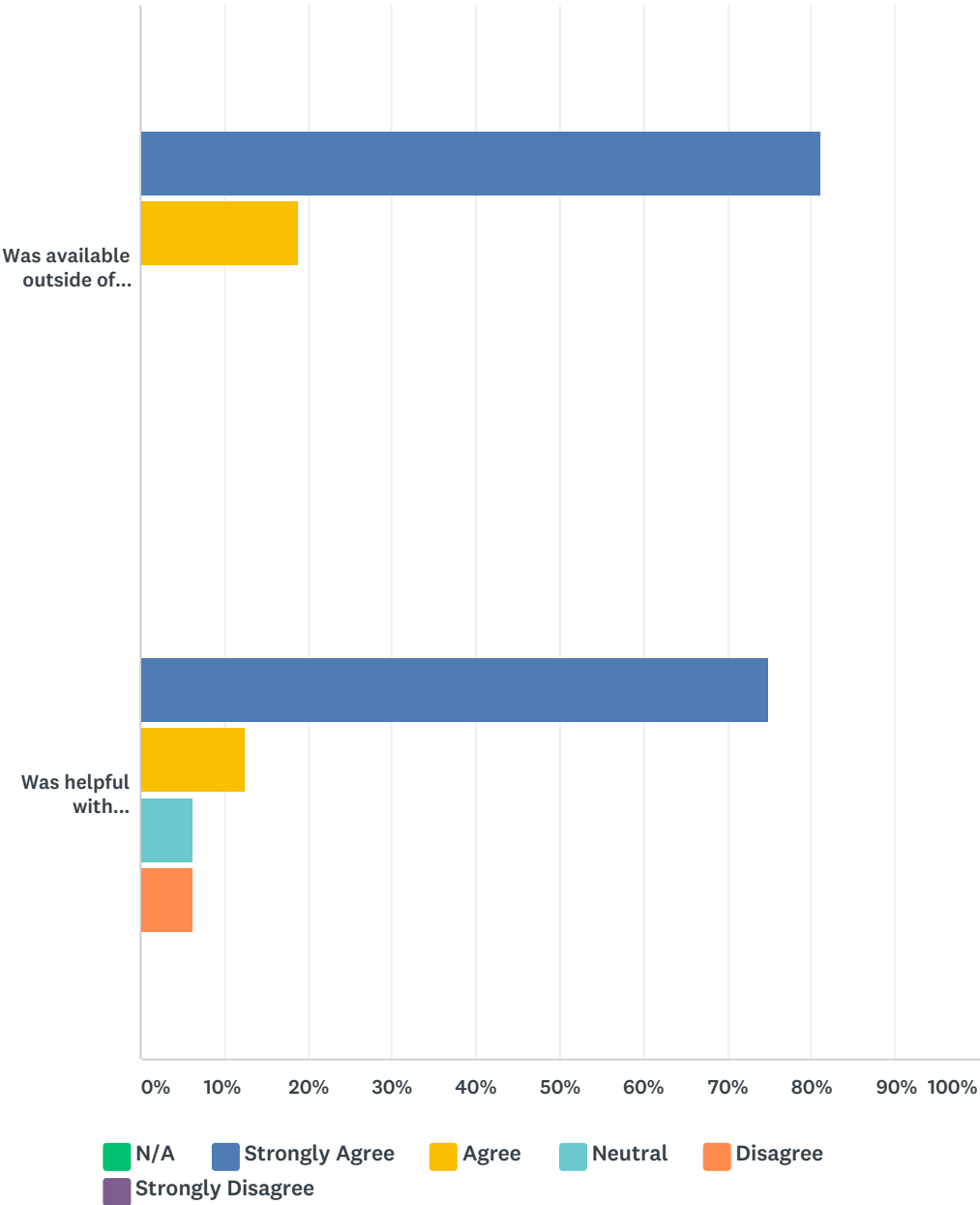
## CAAP 2018 Course Evaluations

SurveyMonkey

|  |            |             |             |             |             |            |    |
|--|------------|-------------|-------------|-------------|-------------|------------|----|
| This course met my expectations.                                 | 0.00%<br>0 | 18.75%<br>3 | 31.25%<br>5 | 31.25%<br>5 | 12.50%<br>2 | 6.25%<br>1 | 16 |
| This course provided me with new insight and knowledge.          | 0.00%<br>0 | 50.00%<br>8 | 43.75%<br>7 | 0.00%<br>0  | 0.00%<br>0  | 6.25%<br>1 | 16 |
| This course provided me with useful skills.                      | 0.00%<br>0 | 37.50%<br>6 | 50.00%<br>8 | 6.25%<br>1  | 6.25%<br>1  | 0.00%<br>0 | 16 |
| The content of this course was presented at an appropriate level | 0.00%<br>0 | 37.50%<br>6 | 31.25%<br>5 | 12.50%<br>2 | 12.50%<br>2 | 6.25%<br>1 | 16 |
| I put my best effort into this course.                           | 0.00%<br>0 | 50.00%<br>8 | 37.50%<br>6 | 12.50%<br>2 | 0.00%<br>0  | 0.00%<br>0 | 16 |
| The class had a high level of morale/enthusiasm.                 | 0.00%<br>0 | 20.00%<br>3 | 20.00%<br>3 | 20.00%<br>3 | 33.33%<br>5 | 6.67%<br>1 | 15 |

Q43 The teaching assistant:

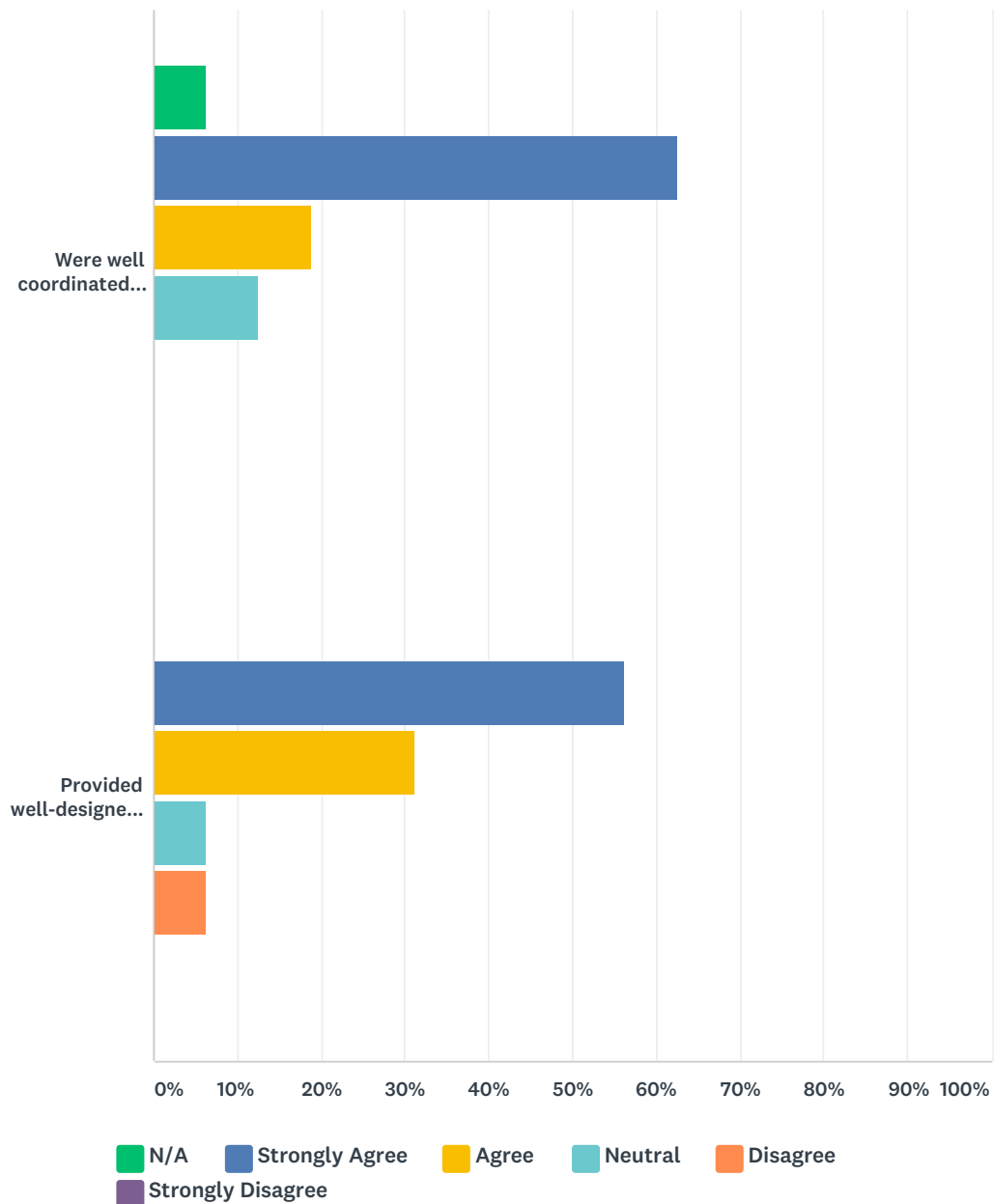
Answered: 16    Skipped: 0



|                                | N/A        | STRONGLY AGREE | AGREE       | NEUTRAL    | DISAGREE   | STRONGLY DISAGREE | TOTAL |
|--------------------------------|------------|----------------|-------------|------------|------------|-------------------|-------|
| Was available outside of class | 0.00%<br>0 | 81.25%<br>13   | 18.75%<br>3 | 0.00%<br>0 | 0.00%<br>0 | 0.00%<br>0        | 16    |
| Was helpful with assignments   | 0.00%<br>0 | 75.00%<br>12   | 12.50%<br>2 | 6.25%<br>1 | 6.25%<br>1 | 0.00%<br>0        | 16    |

## Q44 Problem sessions/office hours:

Answered: 16 Skipped: 0

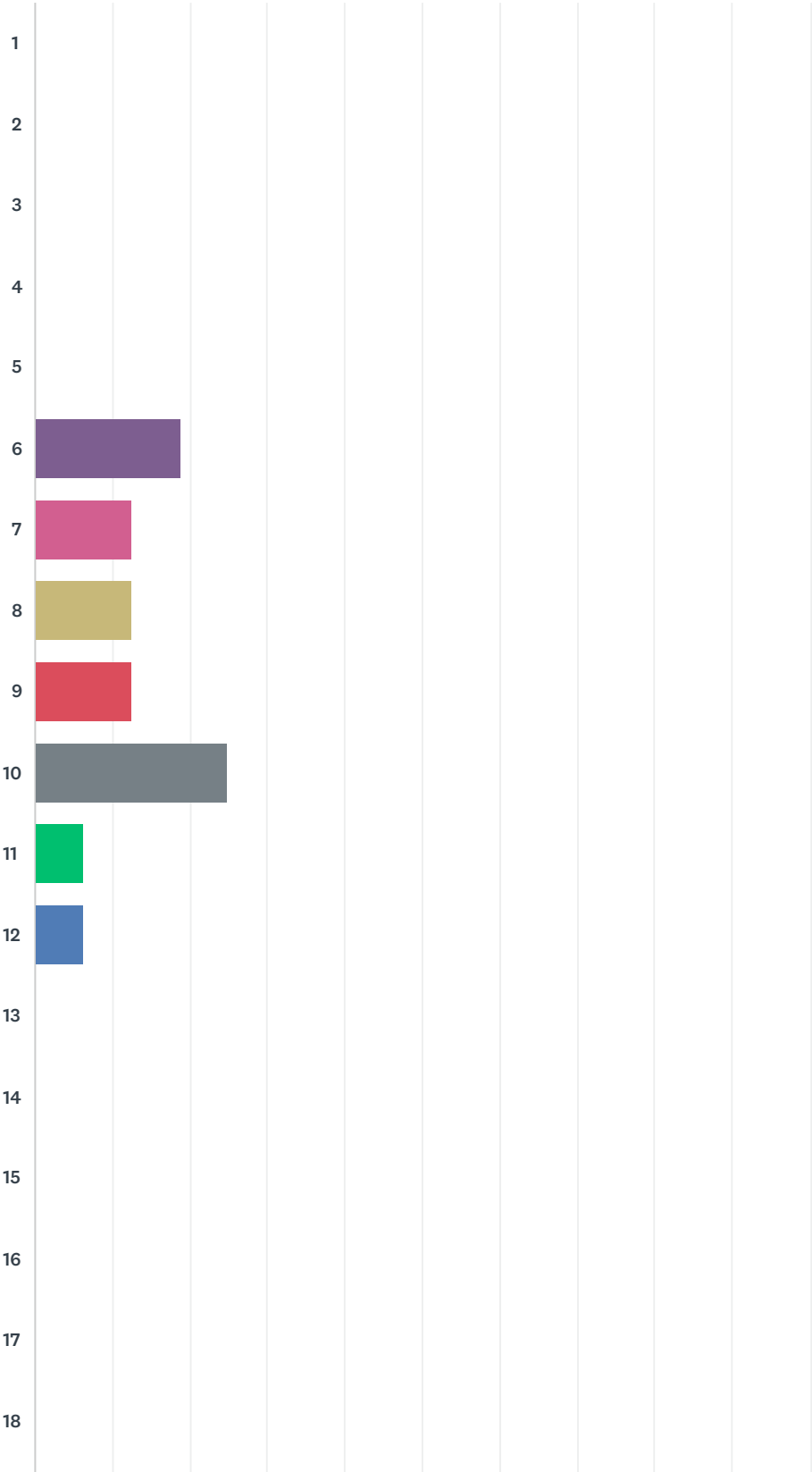


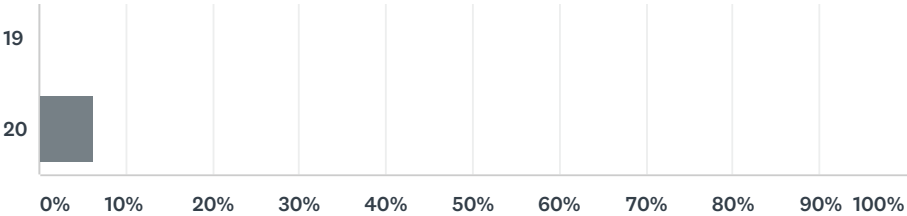
|   | N/A        | STRONGLY AGREE | AGREE       | NEUTRAL     | DISAGREE   | STRONGLY DISAGREE | TOTAL |
|---|------------|----------------|-------------|-------------|------------|-------------------|-------|
| Were well coordinated with this course and contributed to it. | 6.25%<br>1 | 62.50%<br>10   | 18.75%<br>3 | 12.50%<br>2 | 0.00%<br>0 | 0.00%<br>0        | 16    |
| Provided well-designed materials.                             | 0.00%<br>0 | 56.25%<br>9    | 31.25%<br>5 | 6.25%<br>1  | 6.25%<br>1 | 0.00%<br>0        | 16    |



Q45 How many hours a week did you spend on this course outside of class time?

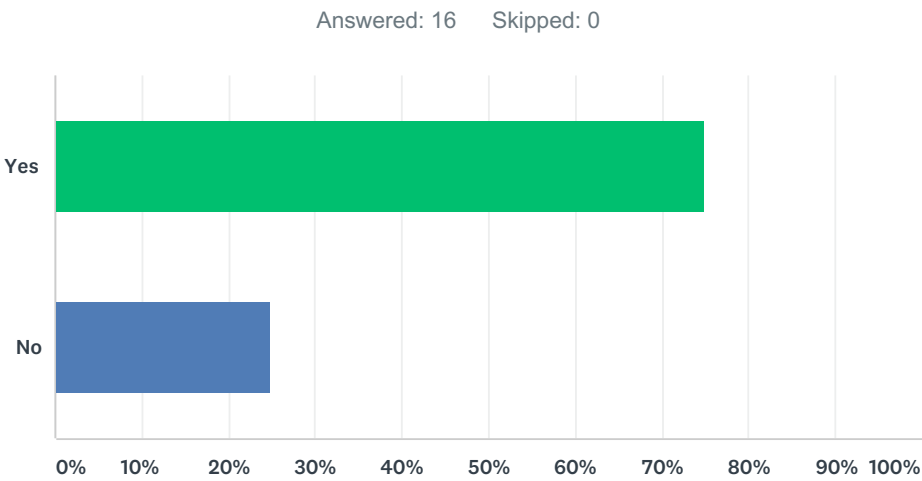
Answered: 16 Skipped: 0





| ANSWER CHOICES | RESPONSES |    |
|----------------|-----------|----|
| 1              | 0.00%     | 0  |
| 2              | 0.00%     | 0  |
| 3              | 0.00%     | 0  |
| 4              | 0.00%     | 0  |
| 5              | 0.00%     | 0  |
| 6              | 18.75%    | 3  |
| 7              | 12.50%    | 2  |
| 8              | 12.50%    | 2  |
| 9              | 12.50%    | 2  |
| 10             | 25.00%    | 4  |
| 11             | 6.25%     | 1  |
| 12             | 6.25%     | 1  |
| 13             | 0.00%     | 0  |
| 14             | 0.00%     | 0  |
| 15             | 0.00%     | 0  |
| 16             | 0.00%     | 0  |
| 17             | 0.00%     | 0  |
| 18             | 0.00%     | 0  |
| 19             | 0.00%     | 0  |
| 20             | 6.25%     | 1  |
| TOTAL          |           | 16 |

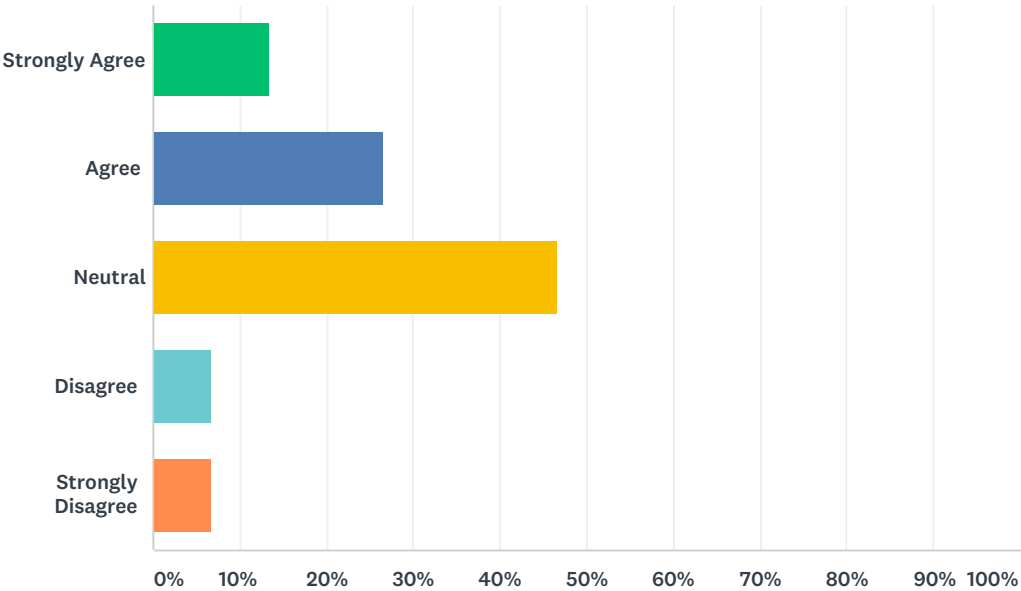
Q46 Were the time demands of this course reasonable?



| ANSWER CHOICES |  | RESPONSES |    |
|----------------|--|-----------|----|
| Yes            |  | 75.00%    | 12 |
| No             |  | 25.00%    | 4  |
| TOTAL          |  |           | 16 |

Q47 In summary, I had a strong desire to take this course.

Answered: 15   Skipped: 1



| ANSWER CHOICES    |  | RESPONSES |    |
|-------------------|--|-----------|----|
| Strongly Agree    |  | 13.33%    | 2  |
| Agree             |  | 26.67%    | 4  |
| Neutral           |  | 46.67%    | 7  |
| Disagree          |  | 6.67%     | 1  |
| Strongly Disagree |  | 6.67%     | 1  |
| TOTAL             |  |           | 15 |

## Q48 What were the instructor's strengths? Weaknesses?

Answered: 15   Skipped: 1

| #  | RESPONSES  | DATE               |
|----|--|--------------------|
| 1  | The instructor's strengths were that he was always willing to make time to help you understand the material, always answered questions in a very clear manner, and taught the material in an accessible manner for everyone by always defining vocabulary and providing necessary background information.  | 8/15/2018 9:24 PM  |
| 2  | He was a knowledgeable teacher. He wasn't very good at communicating his knowledge and sometimes he would appear frustrated when we weren't you didn't understand something.   | 8/13/2018 5:34 PM  |
| 3  | Did pretty well at explaining concepts and making sure everyone understood. No weaknesses.   | 8/13/2018 2:42 PM  |
| 4  | Strengths: asked questions to try to keep the class thinking and got our assignments back to us quickly. Weaknesses: sometimes spent too much time on things everyone understood and sped past things we'd never seen before.  | 8/13/2018 12:59 PM |
| 5  | Although he held office hours, I do not think they were helpful when it came time for examinations. There were no examples in class that were relevant to the homework or the exam and I think the exams were unreasonable harder than the homework or office hour problems. His course was structured badly and so were his lessons.  | 8/13/2018 11:58 AM |
| 6  | Very good at helping out students and making himself available. Couldn't quite catch how much was too much for us though.  | 8/12/2018 2:18 PM  |
| 7  | Strengths: Strong knowledge of the mathematical concept. And generally understanding. Weaknesses: Very confusing at times. Has very little patience, he believes people are not trying when we just don't understand and it makes caring about his lectures very hard.   | 8/12/2018 11:11 AM |
| 8  | The instructor assumed our prior knowledge too much.   | 8/11/2018 3:49 PM  |
| 9  | Professor Chowdhury designed clear lectures, but I do not think he realized that a majority of the class had no background in proofs and complex mathematics. That meant that he would rush through the lecture presenting a lot of information at once which was hard to comprehend in an hour and a half of class time. Professor Chowdhury did make an effort to be available outside of class during office hours to discuss the material. Those office hour sessions definitely helped a lot because I was able to get through my homework assignments there and from the assignments I could study for the quizzes. I would say that Professor Chowdhury was fair in his grading and I would argue that he gradually became more capable of detecting when the class was confused. In the last three weeks, he did steady the pace a bit which was very useful or at least I thought so. I understood the most material at this point. | 8/10/2018 8:32 PM  |
| 10 | The instructor was really helpful during office hours. When he would explain the material in office hours, I would explain. Sometimes, I still felt confused in the class because his explanation was unclear.   | 8/10/2018 1:48 PM  |
| 11 | Strengths: Explained concepts well Weakness: fast pace   | 8/10/2018 11:45 AM |
| 12 | Professor Dip did his best to keep everyone engage and he was always excited to teach us but I felt that he would get frustrated sometimes when we didn't know something.  | 8/10/2018 7:34 AM  |
| 13 | Very willing to set aside extra time to help out students, flexible scheduling. Taught skills but didn't cover as many examples to solidify learning   | 8/9/2018 11:26 PM  |
| 14 | Knew the material, did not explain it thoroughly   | 8/9/2018 8:33 PM   |
| 15 | He spoke down to students quite a bit—acting incredulous when we didn't understand mathematical concepts he considered to be simple or given knowledge. He quite literally said that a problem was "too easy" for us to ask for help on and then refused to help us. When he chose to help, it was generally good. But I never appreciate his attitude towards students. It destroyed class morale.  | 8/9/2018 6:16 PM   |

## Q49 What were the TA's strengths? Weaknesses?

Answered: 15 Skipped: 1

| #  | RESPONSES   | DATE               |
|----|---|--------------------|
| 1  | The strengths of the TA was that he was always available to help with our problem sets, answered questions by providing multiple potential solutions, and always ensured that one truly understood the material by not feeding us answers.  | 8/15/2018 9:24 PM  |
| 2  | Very helpful, always available for office hours.  | 8/13/2018 5:34 PM  |
| 3  | Was very supportive and made sure we understood the given topics. Sometimes the explanations he gave us were kind of confusing though.  | 8/13/2018 2:42 PM  |
| 4  | Strengths: extremely helpful during office hours when it came to homework. Weaknesses: taught us things differently a few times   | 8/13/2018 12:59 PM |
| 5  | He was helpful on the few occasions that I went to him for help although he does not explain the concepts in depth when you do not understand.  | 8/13/2018 11:58 AM |
| 6  | TA graded stuff on time. For me, wasn't so helpful on individual assignments and not as flexible with his schedule. Nice guy though.  | 8/12/2018 2:18 PM  |
| 7  | Strengths: Always available, very good at guiding us through homework problems.   | 8/12/2018 11:11 AM |
| 8  | The TA was helpful.   | 8/11/2018 3:49 PM  |
| 9  | John the TA was amazing. He was great at facilitating collaborative learning. It was frequently the case that a majority of our class would be at his office hours the night before assignments were due. John explained concepts broadly to us and then he would explain specific homework problems. He made an effort to only explain a problem once after everyone has tried it. That was very helpful because it gave me an opportunity to realize and make a note of where my approach to the problem had gone wrong. John was also very good at gauging when I was confused and would provide alternative explanations for clarity which I appreciated. | 8/10/2018 8:32 PM  |
| 10 | The TA was very helpful during office hours by explaining the material. However, sometimes he and the professor would solve problems in different ways and I think they should agree on which way or ways they'll show us how to do the problem.  | 8/10/2018 1:48 PM  |
| 11 | Strengths: Very willing to help students  | 8/10/2018 11:45 AM |
| 12 | John was an amazing TA. He's very approachable and was patient with all of us. He would explain topics over and over until we understood what was happening.  | 8/10/2018 7:34 AM  |
| 13 | Helpful and available. Sometimes what he said though did not match up with what the professor said/taught   | 8/9/2018 11:26 PM  |
| 14 | Explained the instructor's material, nothing  | 8/9/2018 8:33 PM   |
| 15 | John was amazing! I would have died without his help throughout the course. Great at putting math into simple terms, always available, and super cooperative.   | 8/9/2018 6:16 PM   |

## Q50 What, if anything, would you change about this course and why?

Answered: 14   Skipped: 2

| #  | RESPONSES  | DATE               |
|----|--|--------------------|
| 1  | I would not change a thing about the course. It moved very quickly, but this pace allowed us to cover a great deal of content that we will see in the fall.  | 8/15/2018 9:24 PM  |
| 2  | I would structure it so there would be more times to build up proofs rather than throw us right in.  | 8/13/2018 5:34 PM  |
| 3  | Maybe decrease the amount of homework given.   | 8/13/2018 2:42 PM  |
| 4  | I would improve the communication between TA and instructor because the office hours seemed unlinked between them and sometimes we would learn two different things  | 8/13/2018 12:59 PM |
| 5  | I would change the entire course layout and in-class layout. I would add more relevant practice problems in class. I think the instructor was a large part of why these problems arose and would prefer a more prepared and structured instructor. | 8/13/2018 11:58 AM |
| 6  | P-SETS should come less often. It was too much, especially if you just couldn't understand the material and go that fast.  | 8/12/2018 2:18 PM  |
| 7  | The course felt rushed.  | 8/11/2018 3:49 PM  |
| 8  | I do not have any suggestions about what to change. I feel like there is something but I have no clue what exactly that is.  | 8/10/2018 8:32 PM  |
| 9  | We should have more time for limits because that is very applicable to every Calculus class.   | 8/10/2018 1:48 PM  |
| 10 | Nothing  | 8/10/2018 11:45 AM |
| 11 | I felt that this course was very challenging but I wouldn't change the way it was structured.  | 8/10/2018 7:34 AM  |
| 12 | More interactive   | 8/9/2018 11:26 PM  |
| 13 | More structure, more in depth lecture  | 8/9/2018 8:33 PM   |
| 14 | Clearer expectations. Homework, quizzes, and exams varied in difficulty greatly. There was no consistency so we never knew what level we were meant to perform at.   | 8/9/2018 6:16 PM   |

## Q51 Is there any topic in this course that you wished you had previous background in?

Answered: 14 Skipped: 2

| #  | RESPONSES  | DATE               |
|----|--|--------------------|
| 1  | I wish I had more background on how to write proofs coming into the course.  | 8/15/2018 9:24 PM  |
| 2  | Proofs and trig identities in depth.   | 8/13/2018 5:34 PM  |
| 3  | Proofs   | 8/13/2018 2:42 PM  |
| 4  | Proofs.  | 8/13/2018 12:59 PM |
| 5  | I wish I had background in writing proofs and the different proof methods as this was a large component of the class but still felt extremely unprepared.  | 8/13/2018 11:58 AM |
| 6  | Basically everything. Everything I learned (except for factoring) was completely new for me.   | 8/12/2018 2:18 PM  |
| 7  | Writing mathematical proofs.   | 8/11/2018 3:49 PM  |
| 8  | I wish had more practice with my computation skills, specifically my algebraic skills are usually accurate but I am really slow at problem-solving which definitely was a disadvantage. I also wished I understood more about how proofs looked. It would have been nice to know what induction and proof by contradiction were before starting. | 8/10/2018 8:32 PM  |
| 9  | Limits.  | 8/10/2018 1:48 PM  |
| 10 | No   | 8/10/2018 11:45 AM |
| 11 | This course does not rely very heavily on prior knowledge in calculus but you should know trigonometry and algebra pretty well.  | 8/10/2018 7:34 AM  |
| 12 | Writing proofs in general  | 8/9/2018 11:26 PM  |
| 13 | Proofs   | 8/9/2018 8:33 PM   |
| 14 | Pre-Calculus. This course assumed I had a level of mathematical ability which I did not.   | 8/9/2018 6:16 PM   |



## Q52 How has this course contributed to your education?

Answered: 15   Skipped: 1

| #  | RESPONSES   | DATE               |
|----|---|--------------------|
| 1  | This course has contributed to my education by allowing me to see that higher level mathematics is less computation as it is proofs.  | 8/15/2018 9:24 PM  |
| 2  | I understand certain aspects of proofs.   | 8/13/2018 5:34 PM  |
| 3  | Has significantly helped me in doing and writing proofs.  | 8/13/2018 2:42 PM  |
| 4  | I now know how to do proofs.  | 8/13/2018 12:59 PM |
| 5  | I feel that I have gained very little from this course out of its sheer difficulty from lack of structure. If I learned something, it is that I need to dedicate more time to the math subject. | 8/13/2018 11:58 AM |
| 6  | Even though it was very difficult, I was better off for it. I learned a lot of new things that I hope to remember during the course of the school year.   | 8/12/2018 2:18 PM  |
| 7  | It will help with the 20% of calc that is proof based. And it taught me how to organize my time to succeed in core math.  | 8/12/2018 11:11 AM |
| 8  | Helped me realize how little I want to continue my mathematical education.  | 8/11/2018 3:49 PM  |
| 9  | I do not have an answer yet, I am sure that I learned stuff but I am not really sure when and how I will apply that knowledge.  | 8/10/2018 8:32 PM  |
| 10 | I think that I will be more prepared for when I have to do proofs in my calculus classes.   | 8/10/2018 1:48 PM  |
| 11 | I now know how to use proofs  | 8/10/2018 11:45 AM |
| 12 | This course has taught me to write proofs and use critical thinking skills in math. I also learned how to use deductive reasoning.  | 8/10/2018 7:34 AM  |
| 13 | The course truly introduced me to proofs and allowed me to become more specific/precise with math   | 8/9/2018 11:26 PM  |
| 14 | Better knowledge of proofs  | 8/9/2018 8:33 PM   |
| 15 | As hard as it was, I feel much more prepared for Calc 150.  | 8/9/2018 6:16 PM   |