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**Interaction**

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**Hannah Larson (13 comments)**

**Q: During the quarter, about how many hours on average per week did you interact with this instructor in section, class, lab, office hours, and other meetings?**

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<thead>
<tr>
<th>Hours</th>
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**Learning and Instruction**

**How much did you learn from this instructor?**

<table>
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<tr>
<th>Number of Responses</th>
<th>Response Rate</th>
<th>Course Mean</th>
<th>Course Median</th>
<th>STDEV</th>
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<tr>
<td>14</td>
<td>93%</td>
<td>4.6</td>
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<td>1.1</td>
<td>86%</td>
<td>0%</td>
<td>0%</td>
<td>14%</td>
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</table>
Overall, how effective was the instruction you received from this instructor?

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</table>

Note: 5:Extremely effective; 4:Very effective; 3:Moderately effective; 2:Slightly effective; 1:Not effective at all;

Hannah Larson (12 comments)

Q: What skills or knowledge did you learn or improve from this instructor?

1 Hannah Larson taught me this course. Not only did I learn most of material from her, I learned the importance of asking questions.

2 Hannah was so helpful in explaining how to do the problems on psets.

3 n/a

4 She helped understand lecture

5 Went through things taught in lecture and made them much more digestible

6 linear algebra

7 Applying skills and material learned from the textbook to specific examples.

8 Developing greater comprehension of key mathematical concepts and ideas, improving mathematical understanding from a visual perspective, and increasing the logical, methodical math-problem solving approach

9 Hannah clarified almost every concept that was learned in lecture and made them make sense.

10 Hannah helped so much in solidifying concepts and providing supplementary explanation for concepts and ideas that were confusing.

11 I learned about how to visualize math problems in three dimensions and how ensure my calculations aligned with an intuitive understanding of what results should be. In particular, Hannah's excellent explanations helped me understand Lagrange multipliers and what the gradient of F being equal to the gradient of G actually means.

12 Everything from the class.

Teaching Feedback

Hannah Larson (32 comments)

Q: What aspects of this instructor's teaching were most helpful to you? (Please type one idea in each box below.)

Aspect 1:

1 The mini lesson plans before the worksheet. It was much better to go over concepts from lecture before attempting any problems
The mini lesson plans before the worksheet. It was much better to go over concepts from lecture before attempting any problems on the worksheet.

Thorough Review sessions she did at the beginning of section
Very clear in laying out steps to solving problems
Helpful
Section worksheets were very helpful and representative of psets and exams.
Boiling down complex concepts to their most essential ideas, and explaining them in a transparent and entirely comprehensible manner
Clarity
Genius
Hannah’s sections were always well-organized and targeted to what students wanted to focus on. She asked what students needed help with at the beginning of class, then gave a mini-lecture that combined pre-prepared material with specific examples customized to fit students’ needs. Then, she would have students work on problems from the section packet targeted at the concepts selected. She always kept track of time so we were able to go over problems as a class, pointing out key strategies, before moving on to the next problems.

Very good at answering hard questions on the spot

Q: Aspect 2:

Patience. Hannah had endless patience and always made time for her students. She answered all questions and made students feel smart for their questions, not stupid. She connected with us really well.

Really good at explaining
Illustrating all her examples
Very strong conceptual understanding of material let her communicate intricate details effectively and connect different concepts together
Organized
Hannah went over specific problems from the worksheets.
Communicating well in one-on-one interactions with students, and showing a genuine care for student questions by answering them thoroughly and comprehensibly during section
Open-mindedness
Helpful
Hannah always provided excellent answers to questions. She often drew diagrams on the board which helped me visualize the problems at hand. Additionally, she walked around the room while students were working on problems, providing advice and succinct answers to ensure that everyone was on the right track.

Very good at explaining the concepts.

Q: Aspect 3:

Her ability to explain was beautiful. She made seemingly hard material simple and easy. Hannah did this by drawing clarifying images on the board and creating new examples.

Patient
Drawing/Writing on the chalkboard
Very approachable, understood student questions and laid them out intuitively
Takes the initiative
Hannah explained concepts in ways that were easier to understand than some descriptions in the textbook or lectures.
Focus on main concepts during section, not getting caught up in the less-necessary mathematical ideas on the periphery to the math course.
Organization
Directed
Hannah also instilled confidence in students by making the material easier to understand with concrete examples and by always having a positive, encouraging attitude in section.

Hannah Larson (13 comments)

Q: How can this instructor's teaching be improved? (Please type one idea in each box below.)

Aspect 1:
1. No improvement. Maybe the best teacher I've ever had in my life. Absolutely no improvement. She should be teaching Math 51.
2. No improvement needed
3. Great TA
4. Enthusiasm
5. We could move a little faster to get through more of the worksheet.
6. Hannah is great, she explained the material in the best way out of anyone I ran into this year and I don't really have anything to suggest
7. She should teach everyone.

Q: Aspect 2:
1. No improvement needed
2. Knowledge
3. N/A

Q: Aspect 3:
1. No improvement needed
2. Speed of problem solving
3. N/A, Hannah's teaching was really what helped me enjoy and understand the class, I don't have any more suggestions to improve it.

Instructor Added Questions

Closed-ended
No Data.
Click on the number of comments to either expand or collapse comment sections.

Interaction

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Hannah Larson (8 comments)

Q: During the quarter, about how many hours on average per week did you interact with this instructor in section, class, lab, office hours, and other meetings?

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Learning and Instruction

How much did you learn from this instructor?

<table>
<thead>
<tr>
<th>Response</th>
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<th>Course Mean</th>
<th>Course Median</th>
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<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>A great deal</td>
<td>8</td>
<td>100%</td>
<td>4.1</td>
<td>4</td>
<td>0.9</td>
<td>38%</td>
<td>50%</td>
<td>0%</td>
<td>13%</td>
<td>0%</td>
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Note: 5:A great deal; 4:A lot; 3:A moderate amount; 2:A little; 1:Nothing;
Overall, how effective was the instruction you received from this instructor?  

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<tbody>
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<td>8</td>
<td>100%</td>
<td>4.5</td>
<td>5</td>
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Note: 5: Extremely effective; 4: Very effective; 3: Moderately effective; 2: Slightly effective; 1: Not effective at all.

**Hannah Larson (6 comments)**

**Q: What skills or knowledge did you learn or improve from this instructor?**

1. I learned everything from my TA
2. How to solve most of the problems in the worksheet
3. Basic concepts of linear algebra
4. Understanding of linear algebra and multivariable calculus
5. Ability to perform the necessary computations for the course.
6. How to specifically solve problems.

**Teaching Feedback**

**Hannah Larson (20 comments)**

**Q: What aspects of this instructor's teaching were most helpful to you? (Please type one idea in each box below.)**

**Aspect 1:**

1. She is amazing
2. Clear explanations
3. Specified learning; made attempts to do problems we wanted to do
4. Patience
5. Made concepts clear, spent time going over material, very understanding, would reiterate/explain concept in different way if it was unclear
6. Approachability
7. Great at explaining things!

**Q: Aspect 2:**

1. Best TA ever
2. Moves through the content quickly
3. Personalized; got to know all students by first name
Q: Aspect 3:
1. best person at explaining things
2. straight to the point
3. Compassionate; made review sheets on her own time catered to our needs
4. Passion for subject
5. encouraged peer-peer learning and interaction
6. Humor

Hannah Larson (4 comments)

Q: How can this instructor’s teaching be improved? (Please type one idea in each box below.)

Aspect 1:
1. n/a
2. She

Aspect 2:
1. is

Aspect 3:
1. perfect

Instructor Added Questions

Closed-ended
No Data.
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Hannah Larson (20 comments)

Q: During the quarter, about how many hours on average per week did you interact with this instructor in section, class, lab, office hours, and other meetings?

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
A great deal 65% (13)
A lot 20% (4)
A moderate amount 15% (3)
A little 0% (0)
Nothing 0% (0)

How much did you learn from this instructor?

Note: 5: A great deal; 4: A lot; 3: A moderate amount; 2: A little; 1: Nothing;

Extremely effective 70% (14)
Very effective 25% (5)
Moderately effective 5% (1)
Slightly effective 0% (0)
Not effective at all 0% (0)

Overall, how effective was the instruction you received from this instructor?

Note: 5: Extremely effective; 4: Very effective; 3: Moderately effective; 2: Slightly effective; 1: Not effective at all;

Hannah Larson (16 comments)

Q: What skills or knowledge did you learn or improve from this instructor?

1 how to decompose a problem
2 Improved understanding of the course material
3 Hannah Larson is the best math TA. She is attentive and patient, and will explain things step by step in a manner accessible to all students. She helped me with the p-sets and, more importantly, with better understanding all class concepts.
4 Literally everything Math 51 related
5 Problem solving, matrices and G-S method
6 A lot of visualizing many of the difficult algebraic and geometric problems.
7 Hannah instruction allowed me to actually understand the course material. She went through the material throughly but at a good pace such that I always understood the content much more after section.
8 How to conceptualize the topics from lectures in a clear/accessible way, insights into approaching worksheet problems and good directions about how to think about PSet problems as well.
9 all
10 I learned so much from Hannah. She was the best section leader I could imagine. She would summarize the concepts in 5 minutes what took the lecture 50 minutes to not explain well. Hannah was so effective and knew how to answer everyone’s questions and even memorized our names. She made me feel welcome to ask anything, no matter how dumb, and she created a learning environment that got me through math 51.
11 Hannah Larson is THE BEST!!! She is an incredible instructor and is so great at explaining topics that the class is confused about.
She went over concepts from lecture and made me understand them so much more than I had previously. She is the primary reason that the material made sense to me.

12 Thinking analytically
   Patience
   Visuals

13 Math 51

14 Hannah was very helpful at helping me understand concrete examples and step-by-step processes for various kinds of problems.

15 Literally everything taught in lecture, this section leader improved upon.

16 She basically taught us all the material in a clear, concise way, greatly facilitating our learning process far better than the lectures did. She was also great at answering questions and explaining/filling any gaps in our knowledge.

Teaching Feedback

Hannah Larson (54 comments)

Q: What aspects of this instructor’s teaching were most helpful to you? (Please type one idea in each box below.)

Aspect 1:

1 really really clear
2 Patience
3 Great communication skills
4 She is very patient and fields all questions students have, no matter how "silly." Hannah's patience shined in her sections and office hours as she quickly moved around the room trying to answer every question.
5 She was able to explain everything super well.
6 Well-developed theory wrap-ups
7 Effective use of diagrams and visualizations to communicate
8 Explained things very well, went over material at beginning of section and then did targeted practice with handouts.
9 Good working through the problems.
10 She was clear
11 Sections began with a recap of lecture material in a concise manner--this was incredibly helpful.
12 examples
13 she explanations in the beginning
14 Hannah is so good at explaining things. She never assumes we know, she takes it slow and checks to make sure we understand.
15 Is there a teaching award for TAs? Because Hannah really deserves one. She is the most helpful TA I've had at Stanford. Welcomes questions and is very inviting. Patient, caring, goes above and beyond creating review problems and the final review sheet for us. When she got sick our section really suffered. We were spoiled by how good of a TA she was.
16 Took class feedback on what problems to go over
17 Confidence
18 Great at explaining!
19 Clear explanations, able to deconstruct complex concepts in understandable language

Q: Aspect 2:

1 extremely kind
2 Elaboration
3 Excelled at explaining difficult concepts
She is very clear in her explanations, an invaluable skill in the teaching of mathematics. Hannah has a knack for breaking complex concepts into easy-to-understand pieces.

She was able to identify topics we were struggling with.

Good explanation of solutions with asking questions to students

Very conscientious of student pace and checks for understanding without being condescending!

Always open to extra help and explained things gently and understandably when students are confused.

She took (and answered) questions

Different colored chalk! This was really cool (also showed TA's commitment to the course) and helped me visualize some of the complex drawings way better.

dedication

how well she is at answering questions

She is so knowledgeable. Every question we had, Hannah could explain it because she had such a good grasp on the material.

Engaging, empathetic, natural teacher.

Gave enough time to work on problems on our own, but also spent a lot of time going over example problems

Ability to teach

Great at helping in problems!

Great enthusiasm, always had a great attitude in the classroom and responded to any and all questions with zest

Q: Aspect 3:

made the effort to learn everyones names

Willingness to answer questions

Went above and above to create helpful resources for students to understand course material

Hannah is tireless in making sure students completely understand a concept. If she sees so much as a flicker of doubt on a student's face, she'll continue asking questions to see where the student's confusion lies. Hannah is very committed to her students' complete understanding of a concept.

When she solved a type of problem on the board, I never struggled with that problem again.

Theory sheets for midterms and final

Had a good sense of students understanding and focused on material we did not fully grasp so section time was well spent.

She went over elements that we struggled with

Office hours and section never felt intimidating. I always felt supported and guided to ask questions and collaborate with others around me.

willingness to help

the energy and effort she put in to being our TA - she actually cared

She is so patient and cares so much about our success.

Patient, understanding. The criteria above? Preparation, ability to present material clearly, helpfulness of the feedback provided, availability, and the ability to answer questions. Hannah exceeded them all. Give this girl a raise.

Remembered everyone's names!!

Approachable

Great at going through examples!

Broad and deep understanding of the course material, never stuttered in her teaching

Hannah Larson (24 comments)

Q: How can this instructor's teaching be improved? (Please type one idea in each box below.)

Aspect 1:

grades kind of harshly
<table>
<thead>
<tr>
<th>Instructor Added Questions</th>
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<tbody>
<tr>
<td>Closed-ended</td>
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Hannah Larson (6 comments)

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Learning and Instruction

How much did you learn from this instructor?

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<tr>
<th>Percent of Responses</th>
<th>Course Mean</th>
<th>Course Median</th>
<th>STDEV</th>
<th>5</th>
<th>4</th>
<th>3</th>
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<tbody>
<tr>
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Note: 5:A great deal; 4:A lot; 3:A moderate amount; 2:A little; 1:Nothing;
Overall, how effective was the instruction you received from this instructor?

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<tr>
<td>Overall, how effective was the instruction you received from this instructor?</td>
<td>5</td>
<td>83%</td>
<td>4.8</td>
<td>5</td>
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</tbody>
</table>

Note: 5: Extremely effective; 4: Very effective; 3: Moderately effective; 2: Slightly effective; 1: Not effective at all;

Hannah Larson (4 comments)

Q: What skills or knowledge did you learn or improve from this instructor?

1 I learned most of the math 51 topics from Hannah.
2 Hannah basically taught me all that I know of Math 51. She's so nice and good at explaining concepts in simple ways.
3 Hannah was the only reason I was able to make it through math 51, I learned all of linear algebra from her.
4 All the content taught in this course, really, but in particular, Hannah really helped me solidify/visualize concepts and identify the connections between these concepts to apply them to questions. In short, she helped me build my mathematical insight.

Teaching Feedback

Hannah Larson (11 comments)

Q: What aspects of this instructor's teaching were most helpful to you? (Please type one idea in each box below.)

Aspect 1:

1 She is very thorough in her explanations and is willing to go through each step with you.
2 I did not interact with this instructor.
3 She was able to explain the material very well.
4 I could go on and on about this, but 1. Hannah explains everything so clearly. She gives wonderful examples that illustrate what she's saying, and she finds different ways to explain things if we don't understand. This is why even if I didn't understand something in lecture, I wouldn't freak out, but just come to Hannah and then understand it miraculously.
5 went to OH once, good instruction, just too busy.

Q: Aspect 2:

1 She understands the topics very well and can articulate it to you.
2 She answered all of our questions with patience and calm.
3 2. Hannah has so much patience, so that you're never afraid of asking questions. It's truly marvelous how much patience she has.

Q: Aspect 3:

1 She is very kind in her approach to explaining things which made her very effective at teaching.
2 She presented material in a very effective manner and was always organized.

3 Hannah really went above and beyond as a TA. She was always extra prepared for section, having prepared definitions and her own example problems to illustrate them. She always stayed behind after section and office hours (sometimes for 1 to 2 hours!) to answer everyone’s questions, even amidst all the COVID-19 chaos. She asked for areas we were especially confused about and then created midterm review notes that explained them in detail. She was also always willing to answer questions via email, from “Why did I get points taken off for this?” to “Why does this work this way?” In short, Hannah was 99% of the reason why I completed this course successfully (while enjoying it!); I definitely owe her my A+! I wish she could be my teacher forever.

Hannah Larson (4 comments)

Q: How can this instructor’s teaching be improved? (Please type one idea in each box below.)

Aspect 1:
1 I think that it would be good if she could be louder.
2 Nothing, she is amazing!
3 Hannah was so kind and patient that she’d answer every question that was asked, and so sometimes when I went to office hours I’d sit there listening to what I thought were objectively terrible questions like “I don’t understand this entire question” for 2 hours to get my question answered. It’d be nice to have someone filtering some of the questions to redirect them to textbook definitions, etc., but I don’t see how that could technologically work.

Q: Aspect 2:
1 I think that too many students needed help from her but couldn’t get it because of limited time.

Q: Aspect 3:

Instructor Added Questions

Closed-ended
No Data.
Interaction

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Hannah Larson (12 comments)

Q: During the quarter, about how many hours on average per week did you interact with this instructor in section, class, lab, office hours, and other meetings?

1 5
2 2
3 2
4 2
5 3
6 2
7 5
8 1
9 2
10 0
11 1
12 5

Learning and Instruction

![Bar chart showing how much students learned from the instructor]

<table>
<thead>
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<tr>
<td>How much did you learn from this instructor?</td>
<td>12</td>
<td>100%</td>
<td>4.4</td>
<td>5</td>
<td>0.6</td>
<td>50%</td>
<td>42%</td>
<td>8%</td>
<td>0%</td>
<td>0%</td>
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<th>Course Mean</th>
<th>Course Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall, how effective was the instruction you received from this instructor?</td>
<td>12</td>
<td>100%</td>
<td>4.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: 5: Extremely effective; 4: Very effective; 3: Moderately effective; 2: Slightly effective; 1: Not effective at all;

Hannah Larson (11 comments)

**Q: What skills or knowledge did you learn or improve from this instructor?**

1. Basically how to do everything in this class
2. Helped me solidify my understanding from lecture
3. I understood literally every concept in a more deeper sense through her instruction. Particularly, her teachings about orthogonal matrices, matrix decomposition, projections, and contour plots were very helpful.
4. Hannah was helpful for explaining problem set questions in a way that was a good balance between explaining but guiding us to the answer if we were able to do it ourselves, but she didn't completely leave us to figure it out ourselves. If we could figure it out, she would help us get there. If we were stuck, she would step in. She also took extra time to help us, beyond her scheduled office hours. She also learned people's names.
5. All of the concepts in the class became clear as soon as I went to section. Hannah is amazing!!
6. Very helpful with explaining things that lecture didn't cover so I understood the homework
7. Problem solving
8. Everything! Hannah did a better job at teaching the material than the professors did
9. Hannah helped in providing overall understanding of concepts and helped visualize them
10. Anytime I did not understand a concept fully Hannah's section gave me all the information I needed
11. EVERYTHING I learned was because of Hannah. She is the definition of a godsend. She was insanely helpful in teaching the math, and answering our questions. We asked SO many questions, and not once did she not have an answer for us. Not only this, but her answers actually answered our questions. Like make her a professor I beg of the department! She is insanely talented as a teacher. Would not be here today if it weren't for her. Absolutely amazing!

Hannah Larson (29 comments)

**Q: What aspects of this instructor's teaching were most helpful to you? (Please type one idea in each box below.)**

**Aspect 1:**

1. Writing on the board and going back over any concepts
Clarity

She used really insightful examples and came prepared with 3D models she made herself.

Balancing guiding us to answers vs stepping in and just explaining if we clearly didn't know something

Patient
clear explanations and helpful instruction

Clear steps

Preparation

Kind, Caring attitude

Thoroughness in explaining a concept

amazing answers, very detailed, VERY organized, made everything make sense

Q: Aspect 2:

1  Constantly asking if people had questions
2  Thoughtfulness
3  Hannah answered every question I had and fostered a really relaxed and collaborative environment in the classroom.
4  Spent extra time once scheduled office hours were over
5  Clear
6  Asking students what they wanted to see versus always going through pre-planned problems
7  Clearly taught material and answered every student question until that student understood the material
8  Going out of her way to help students
9  Easily able to answer any student's question on the spot
10 EXCEPTIONAL job explain problems and concepts

Q: Aspect 3:

1  Letting us work on our own for practice problems and then going over them with us
2  Knowledgable
3  Hannah also made amazing review sheets for us before midterms and overall, I learned so much from this class purely because of her immense competence of the material and ability to communicate it clearly.
4  Thoughtful
5  Clear explanation and very good at giving useful ways to 'interpret' problem individually
6  Wrote everything on the blackboard
7  Multiple examples ready at hand if one did not suffice.
8  amazing office hours. the only TA that actually seemed to know all of the material when we asked. She could quote textbook examples and references just like that. She knew her shit! Promote her please!

Hannah Larson (16 comments)

Q: How can this instructor's teaching be improved? (Please type one idea in each box below.)

Aspect 1:

1  Nothing
2  Go through more problems in section
3  N/A
4  Spend a bit less time on each problem
<table>
<thead>
<tr>
<th>Instructor Added Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed-ended</td>
</tr>
<tr>
<td>No Data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>Can't think of any</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Nothing could be improved, she is amazing</td>
</tr>
<tr>
<td>7</td>
<td>I did not attend a majority of sections, and there perhaps could be some lack of engagement due to Hannah, but I blame my end more than hers.</td>
</tr>
<tr>
<td>8</td>
<td>Nothing</td>
</tr>
</tbody>
</table>

**Q: Aspect 2:**

<table>
<thead>
<tr>
<th>1</th>
<th>Time management</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>Explain more on the board so easier for other students with the same question to benefit</td>
</tr>
<tr>
<td>4</td>
<td>not a single thing</td>
</tr>
</tbody>
</table>

**Q: Aspect 3:**

<table>
<thead>
<tr>
<th>1</th>
<th>n/a</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>Maybe step in sooner to explain things rather than having students flounder a bit when don't know what's going on</td>
</tr>
<tr>
<td>4</td>
<td>how can you improve perfection.</td>
</tr>
</tbody>
</table>