Student Survey Report

Wysk | STAM Student Survey | Combined Results
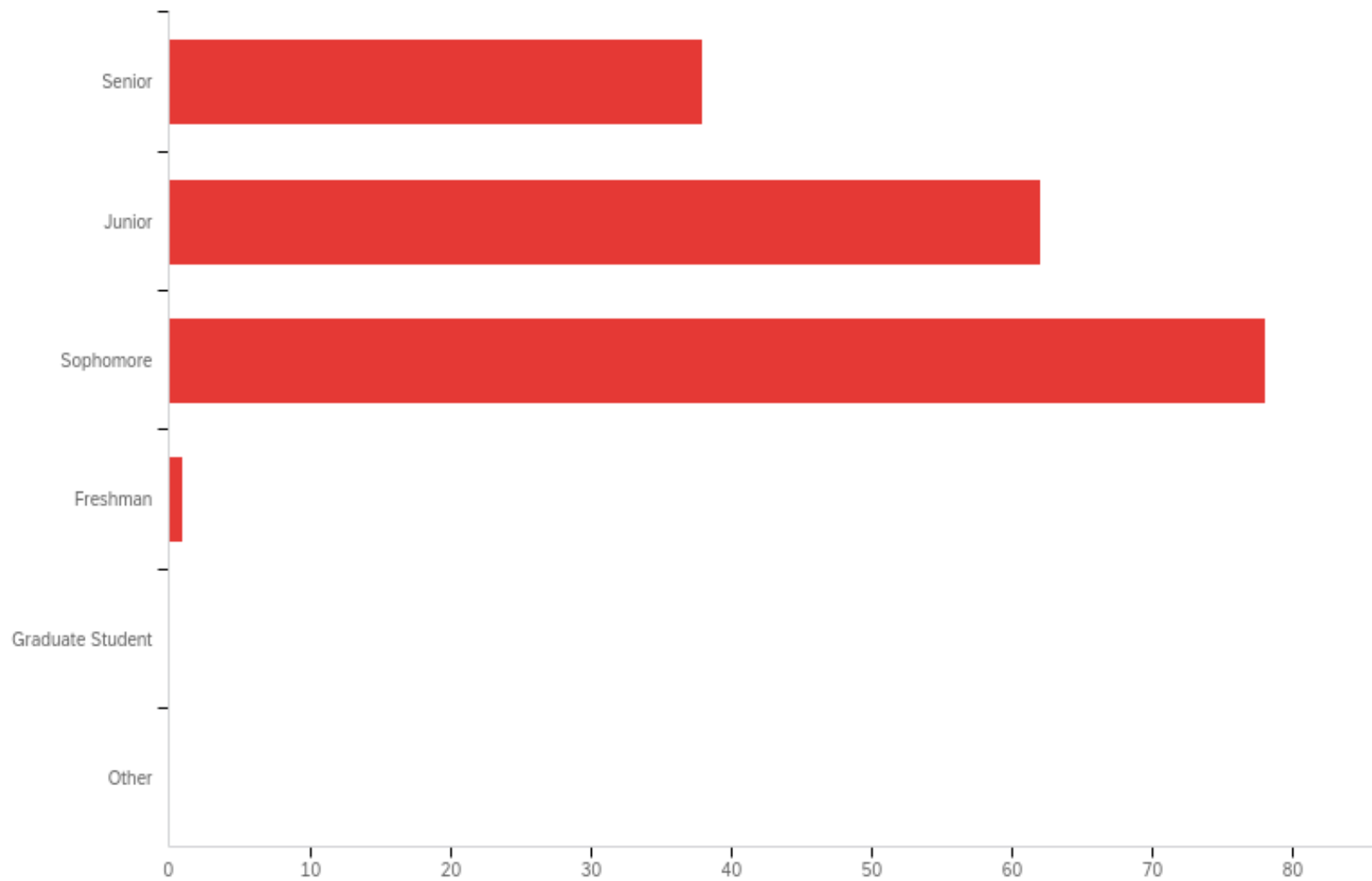
May 29, 2020

Qualtrics Student Survey Results

- Background of students taking the survey
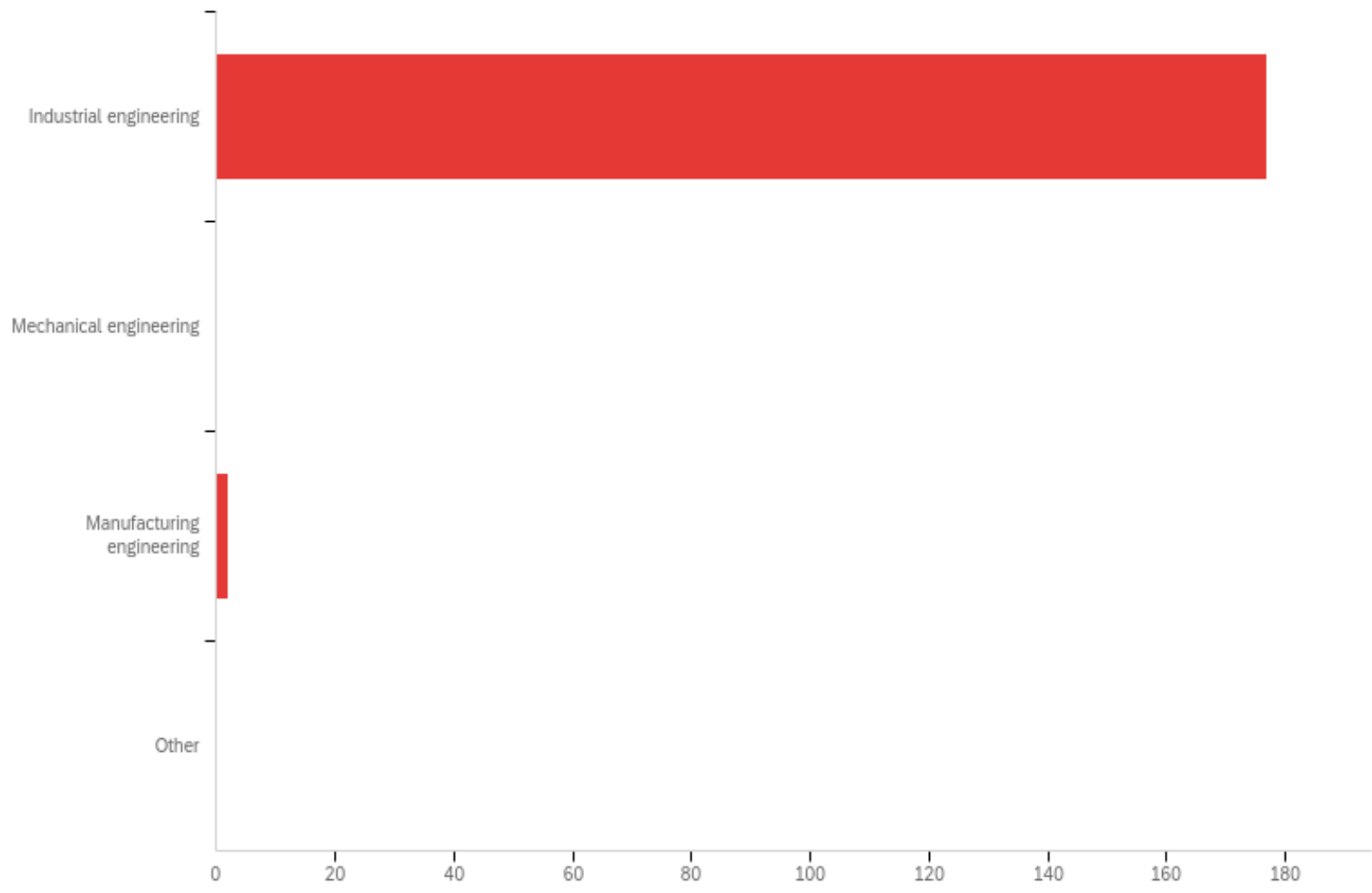- Course background/specifics
- Responses to a repository

Q2 – Student Class status:

Q2 - Class status:

#	Answer	%	Count
1	Senior	21.23%	38
2	Junior	34.64%	62
3	Sophomore	43.58%	78
4	Freshman	0.56%	1
8	Graduate Student	0.00%	0
9	Other	0.00%	0
	Total	100%	179

Q3 - Which best describes your major?

Q3 - Which best describes your major?

#	Answer	%	Count
1	Industrial engineering	98.88%	177
2	Mechanical engineering	0.00%	0
3	Manufacturing engineering	1.12%	2
4	Other	0.00%	0
	Total	100%	179

Q4 - What is your GPA?
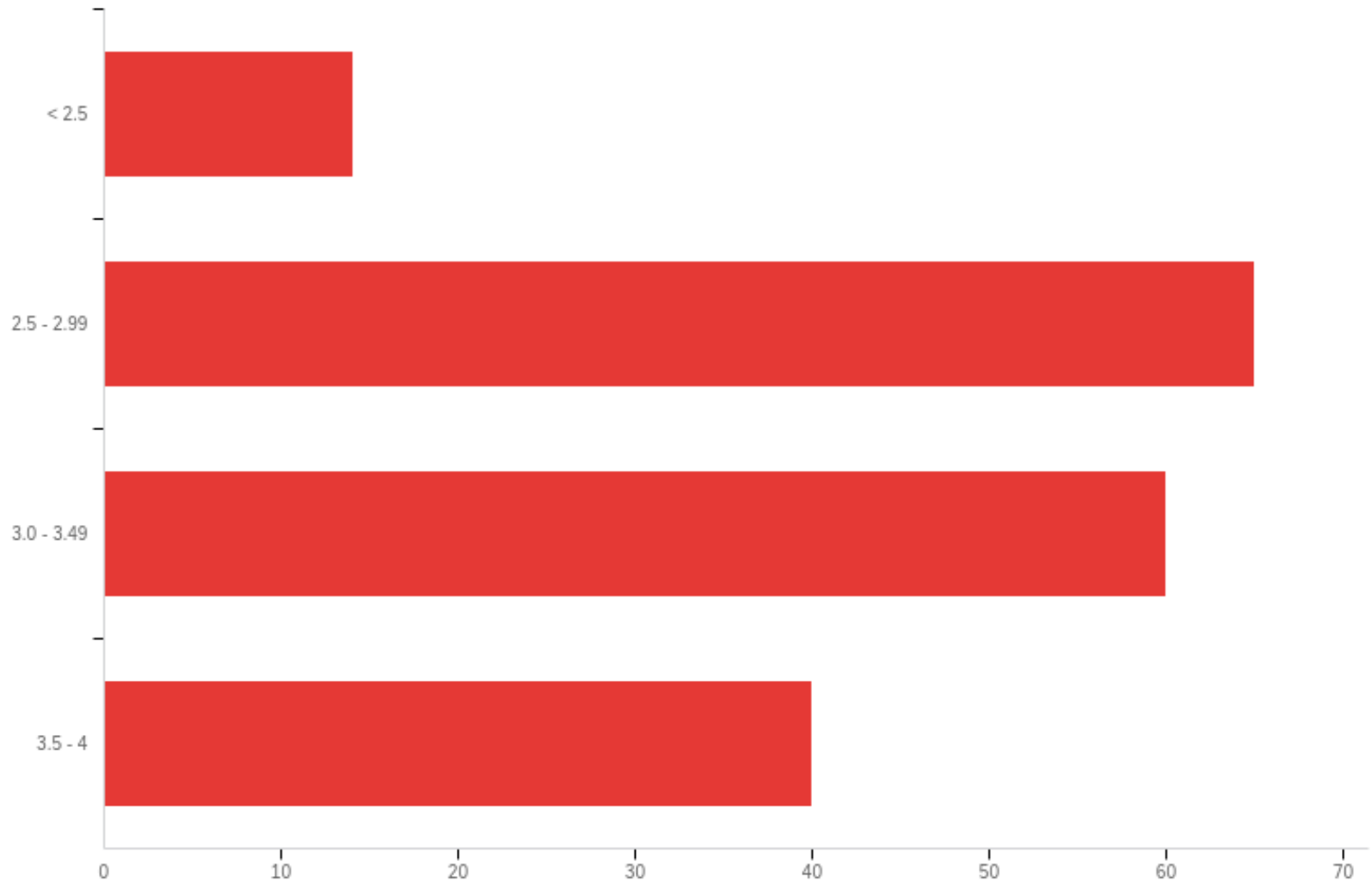
Q4 - What is your GPA?

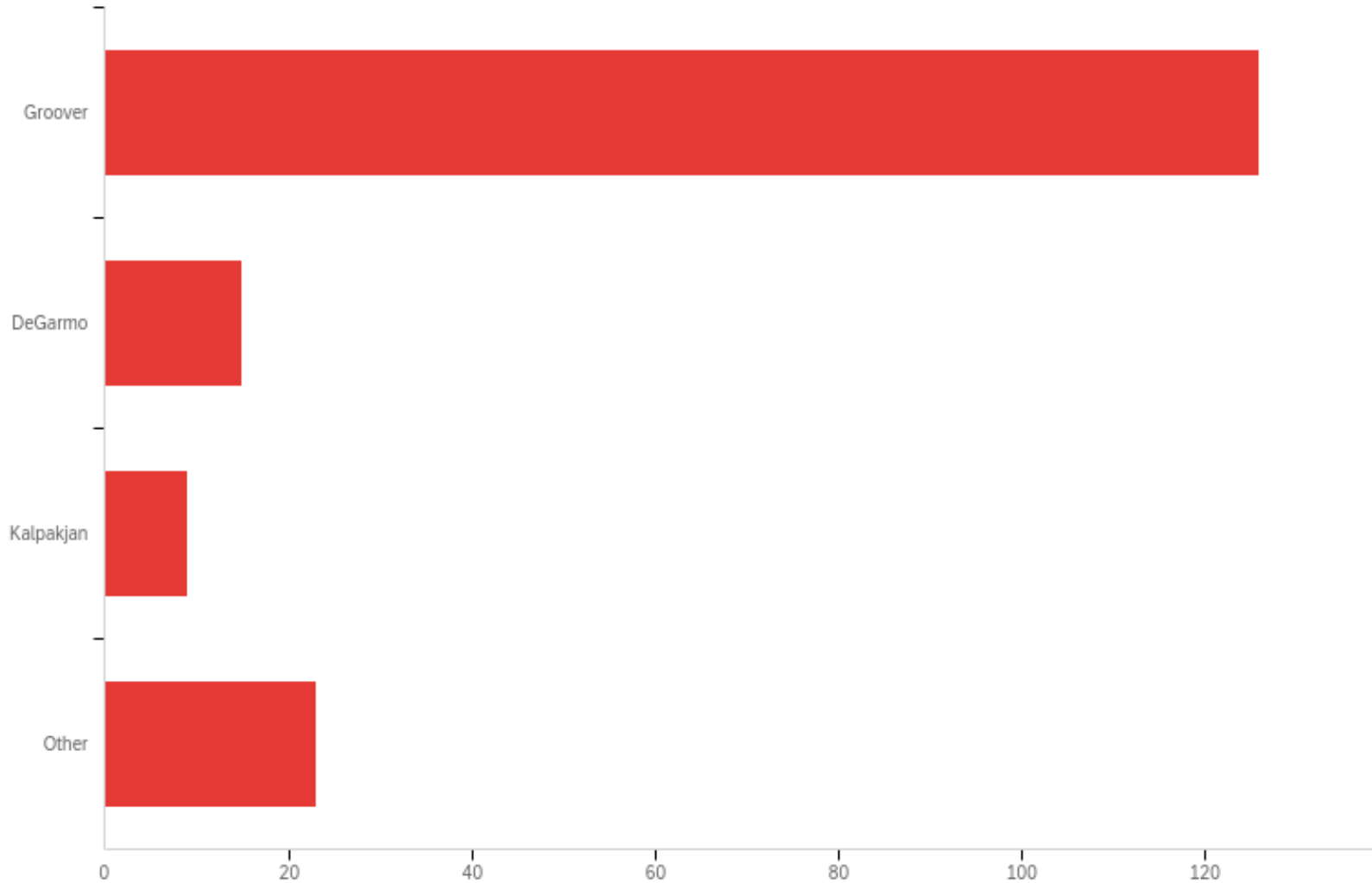| #	Answer	%	Count
1	< 2.5	7.82%	14
2	2.5 - 2.99	36.31%	65
3	3.0 - 3.49	33.52%	60
4	3.5 - 4	22.35%	40
	Total	100%	179

Q6 - Which best describes your college or university?
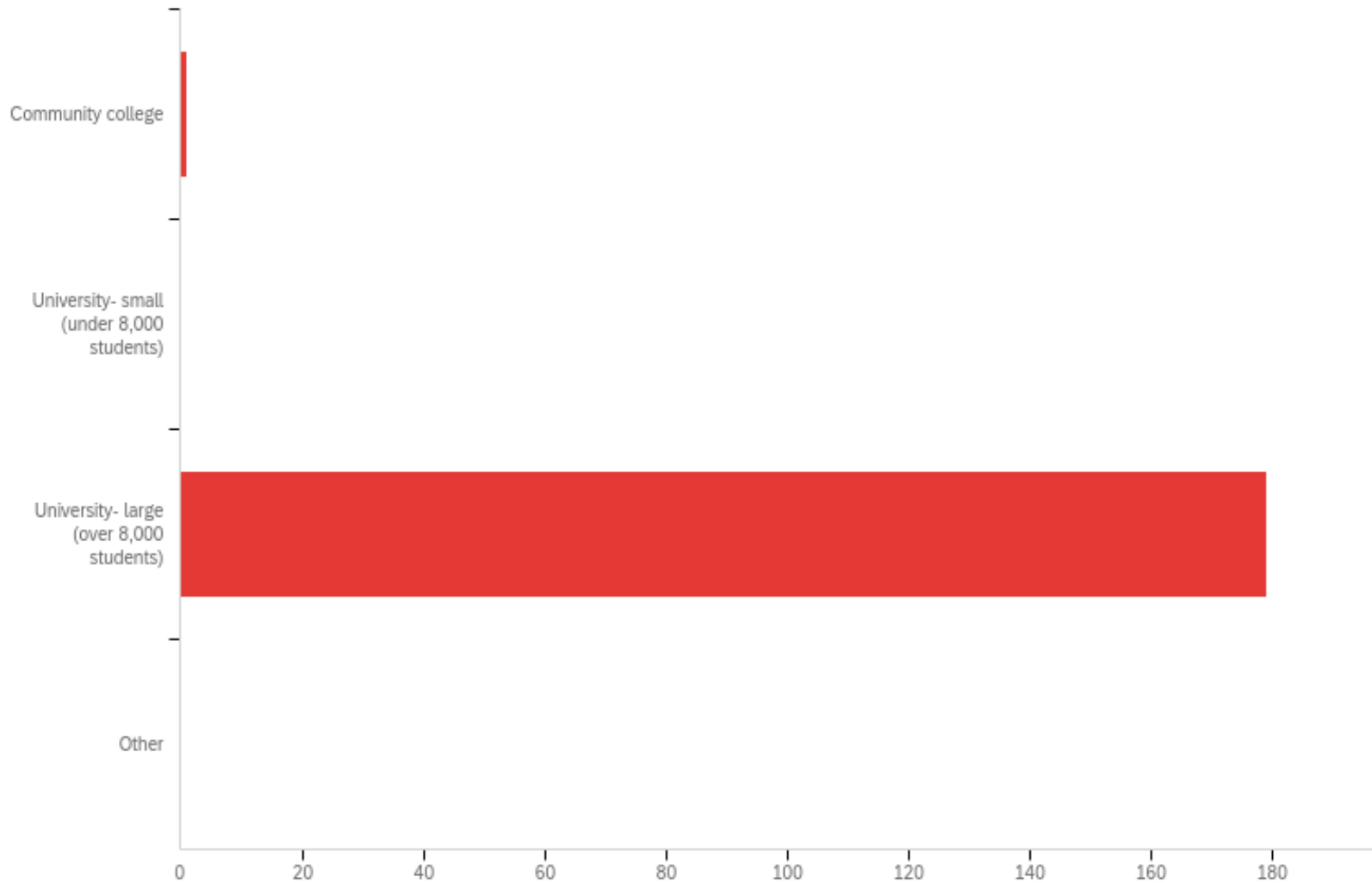
Q6 - Which best describes your college or university?

#	Answer	%	Count
1	Community college	0.56%	1
2	University- small (under 8,000 students)	0.00%	0
3	University- large (over 8,000 students)	99.44%	179
4	Other	0.00%	0
	Total	100%	180

Q7 - I/We currently use the following book to teach manufacturing processes

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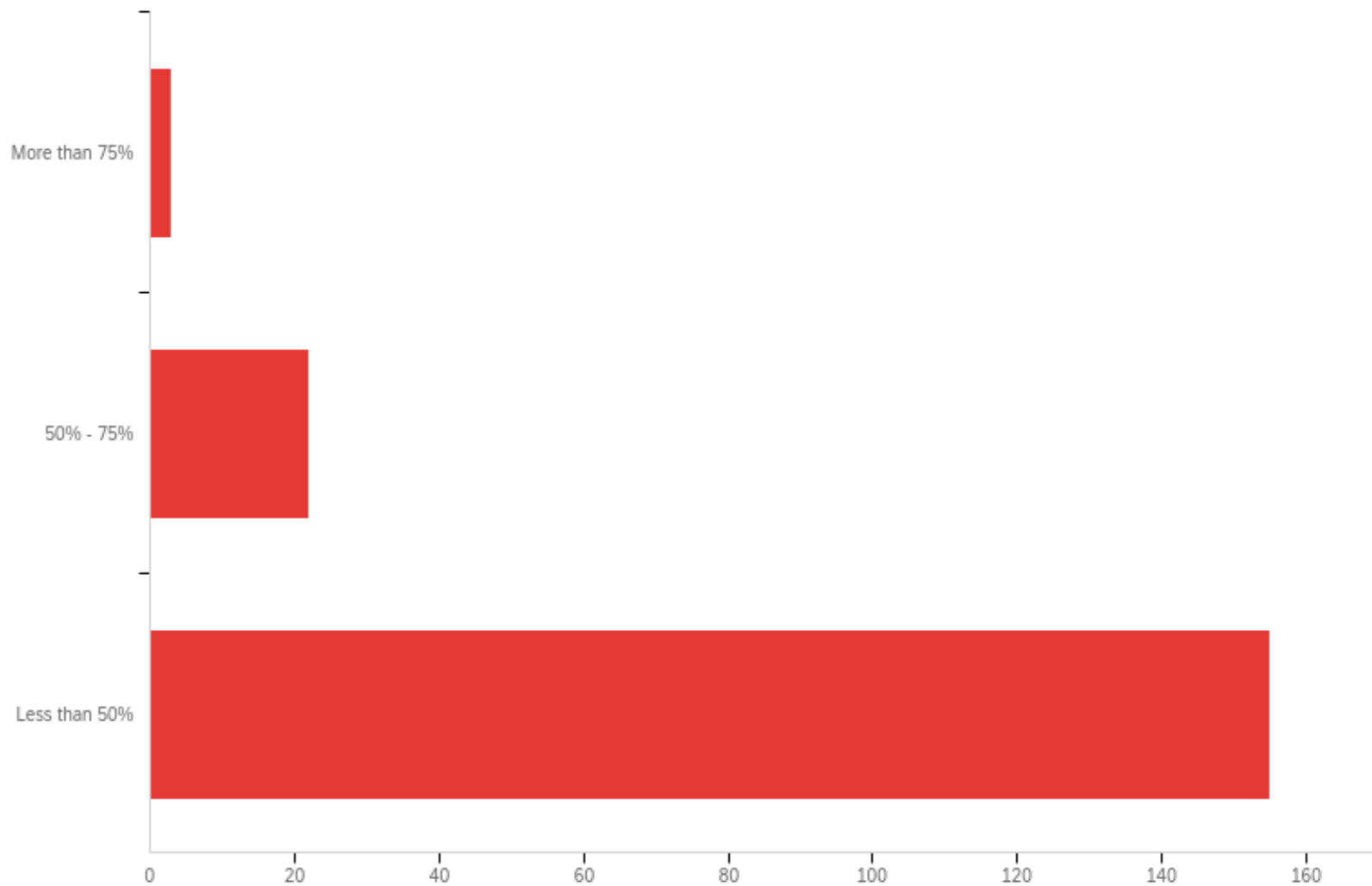| #	Answer	%	Count
5	Groover	72.83%	126
6	DeGarmo	8.67%	15
7	Kalpakjan	5.20%	9
8	Other	13.29%	23
	Total	100%	173

Q7 - I/We currently use the following book to teach manufacturing processes
Q7_8_TEXT - Other

| Other - Text |
|---|
| None. Provided by instructor |
| Industrial Engineering Book |
| Industrial engineering book |
| “The book” |
| I don’t remember |
| not sure |
| not sure |
| No text used |
| not sure |

Q26 - What percent of the book, do you currently use/

Q26 - What percent of the book, do you currently use/

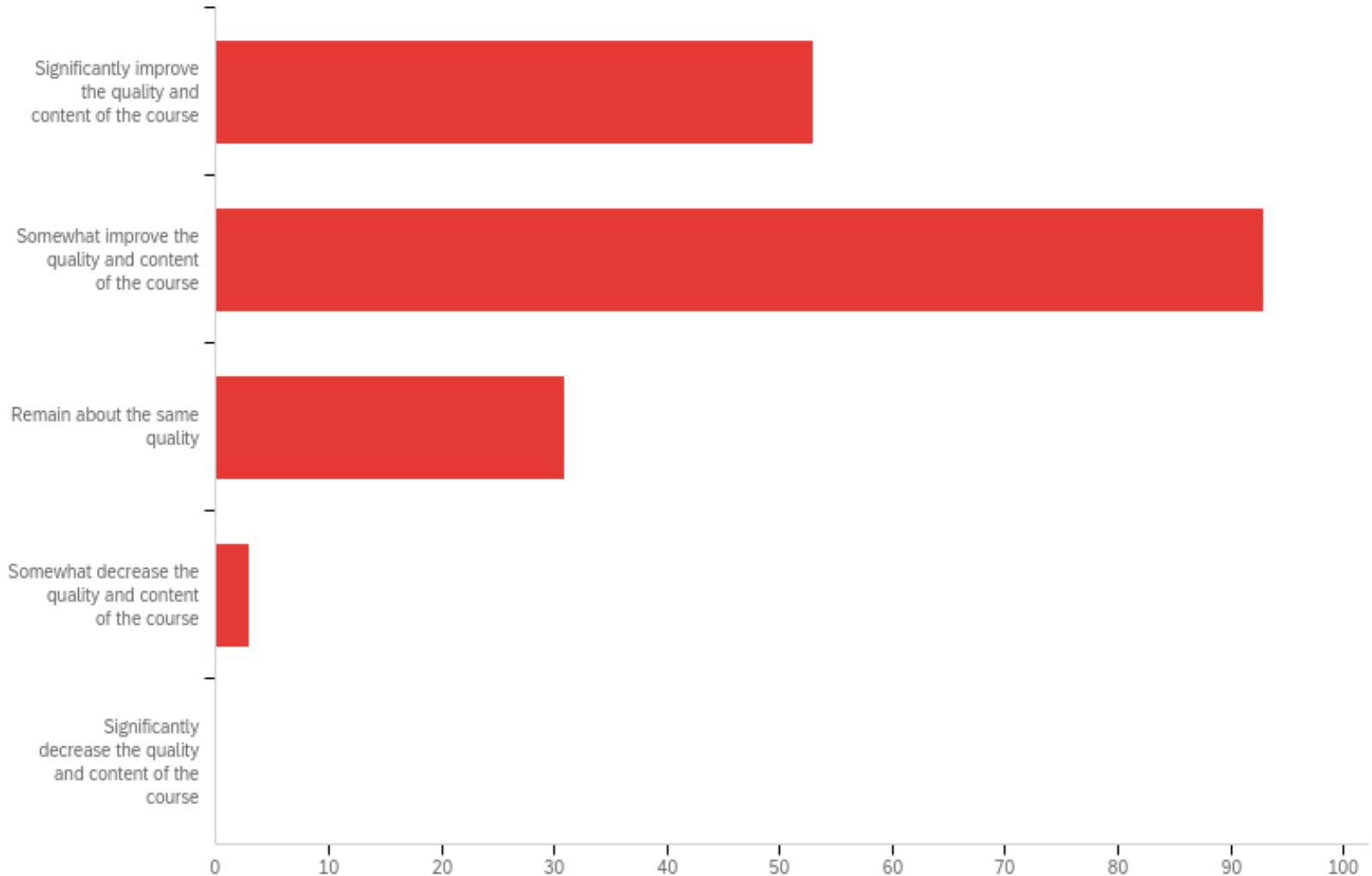| #	Answer	%	Count
1	More than 75%	1.67%	3
2	50% - 75%	12.22%	22
3	Less than 50%	86.11%	155
	Total	100%	180

Q8 - The course that I have taken (or am currently taking) has:
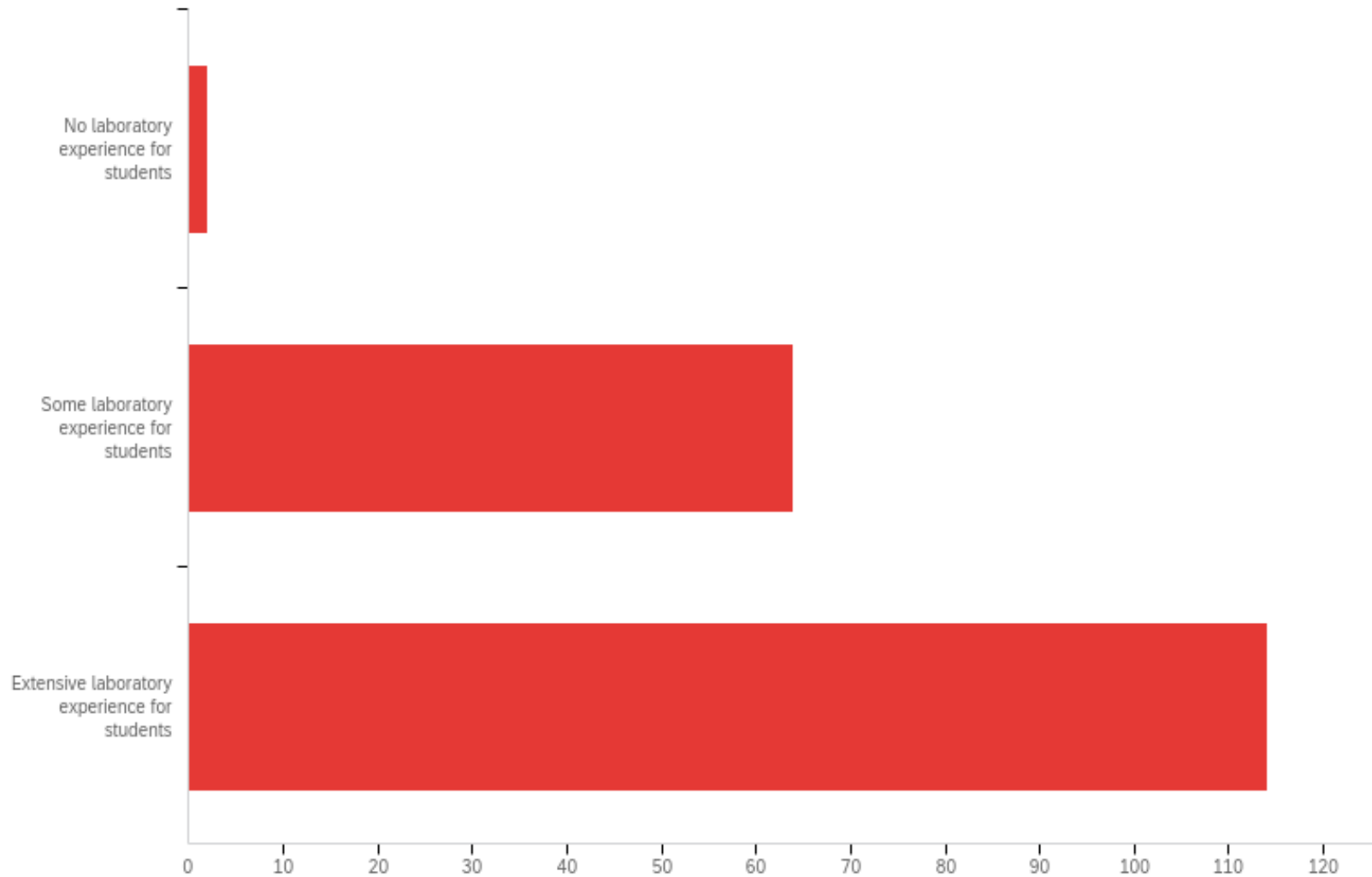
Q8 - The course that I have taken (or am currently taking) has:

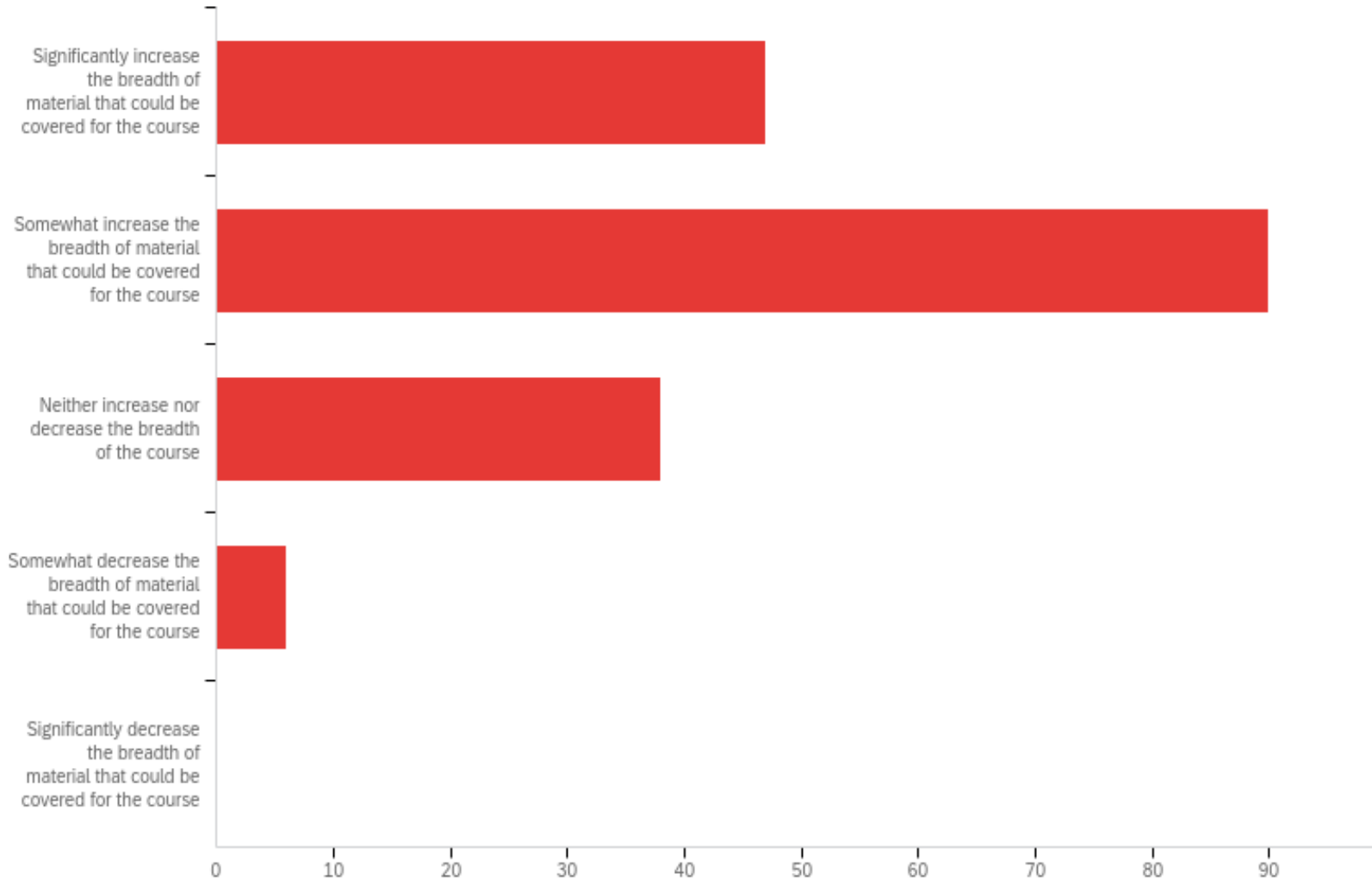| #	Answer	%	Count
1	No laboratory experience for students	1.11%	2
2	Some laboratory experience for students	35.56%	64
3	Extensive laboratory experience for students	63.33%	114
	Total	100%	180

Q10 - If a repository of existing materials for advanced manufacturing was available for university instructors to utilize, it would:

Q10 - If a repository of existing materials for advanced manufacturing was available for university instructors to utilize, it would:

#	Answer	%	Count
1	Significantly improve the quality and content of the course	29.44%	53
2	Somewhat improve the quality and content of the course	51.67%	93
3	Remain about the same quality	17.22%	31
4	Somewhat decrease the quality and content of the course	1.67%	3
5	Significantly decrease the quality and content of the course	0.00%	0

Q12 - If a Repository of existing materials for   advanced manufacturing was available for university instructors to   utilize, it would:

Q12 - If a Repository of existing materials for   advanced manufacturing was available for university instructors to   utilize, it would:

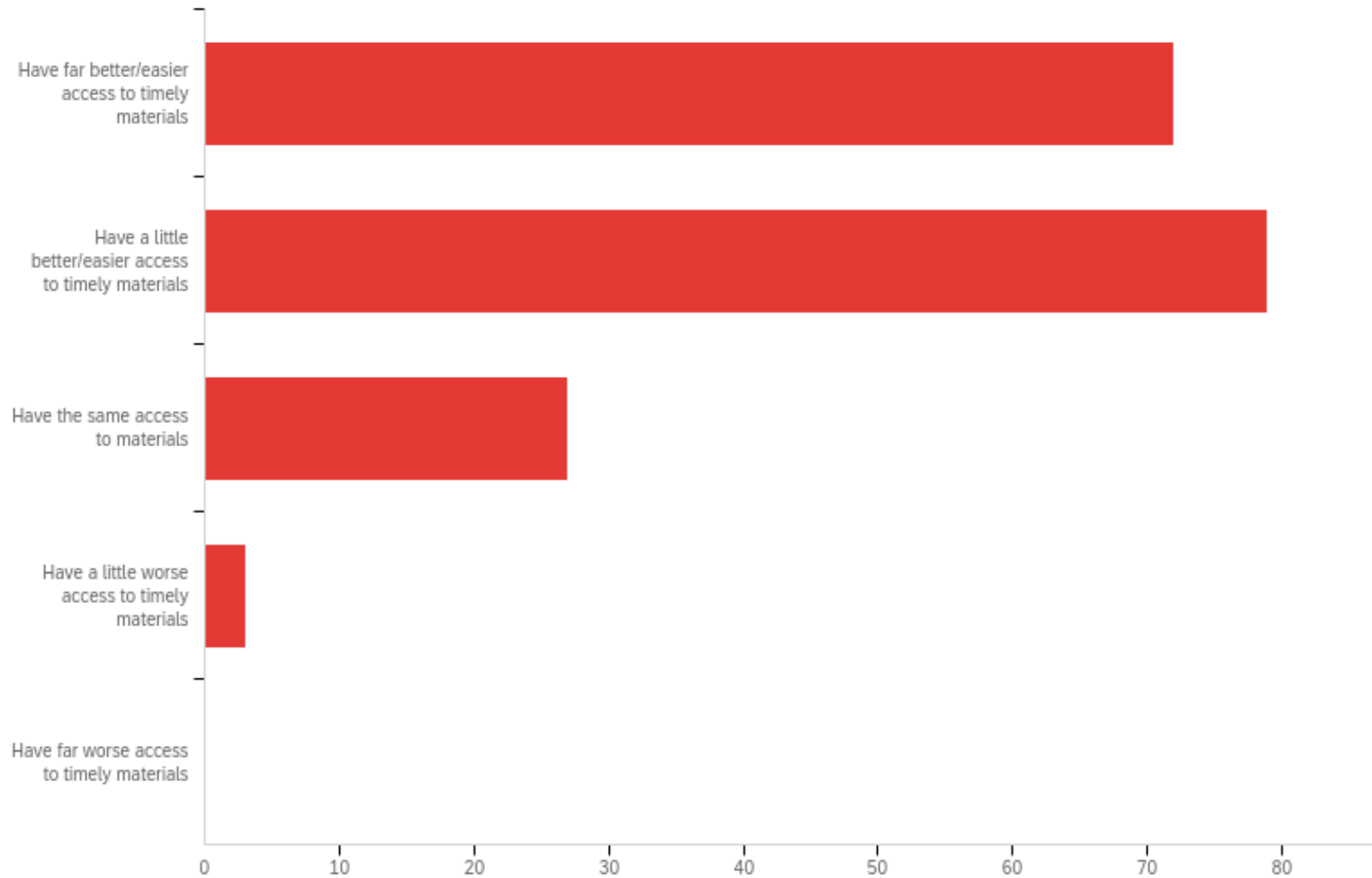| #	Answer	%	Count
1	Significantly increase the breadth of material that could be covered for the course	25.97%	47
2	Somewhat increase the breadth of material that could be covered for the course	49.72%	90
3	Neither increase nor decrease the breadth of the course	20.99%	38
4	Somewhat decrease the breadth of material that could be covered for the course	3.31%	6

Q12 - If a Repository of existing materials for   advanced manufacturing was available for university instructors to   utilize, it would:

| #	Answer	%	Count
5	Significantly decrease the breadth of material that could be covered for the course	0.00%	0
	Total	100%	181

Q14 - Students enrolled in a course that utilizes a repository, will likely:

Q14 - Students enrolled in a course that utilizes a repository, will likely:

#	Answer	%	Count
1	Have far better/easier access to timely materials	39.78%	72
2	Have a little better/easier access to timely materials	43.65%	79
3	Have the same access to materials	14.92%	27
4	Have a little worse access to timely materials	1.66%	3
5	Have far worse access to timely materials	0.00%	0
	Total	100%	181

Q15 - Because of frequent updates to a repository, students enrolled in a course that utilizes a repository, will likely:
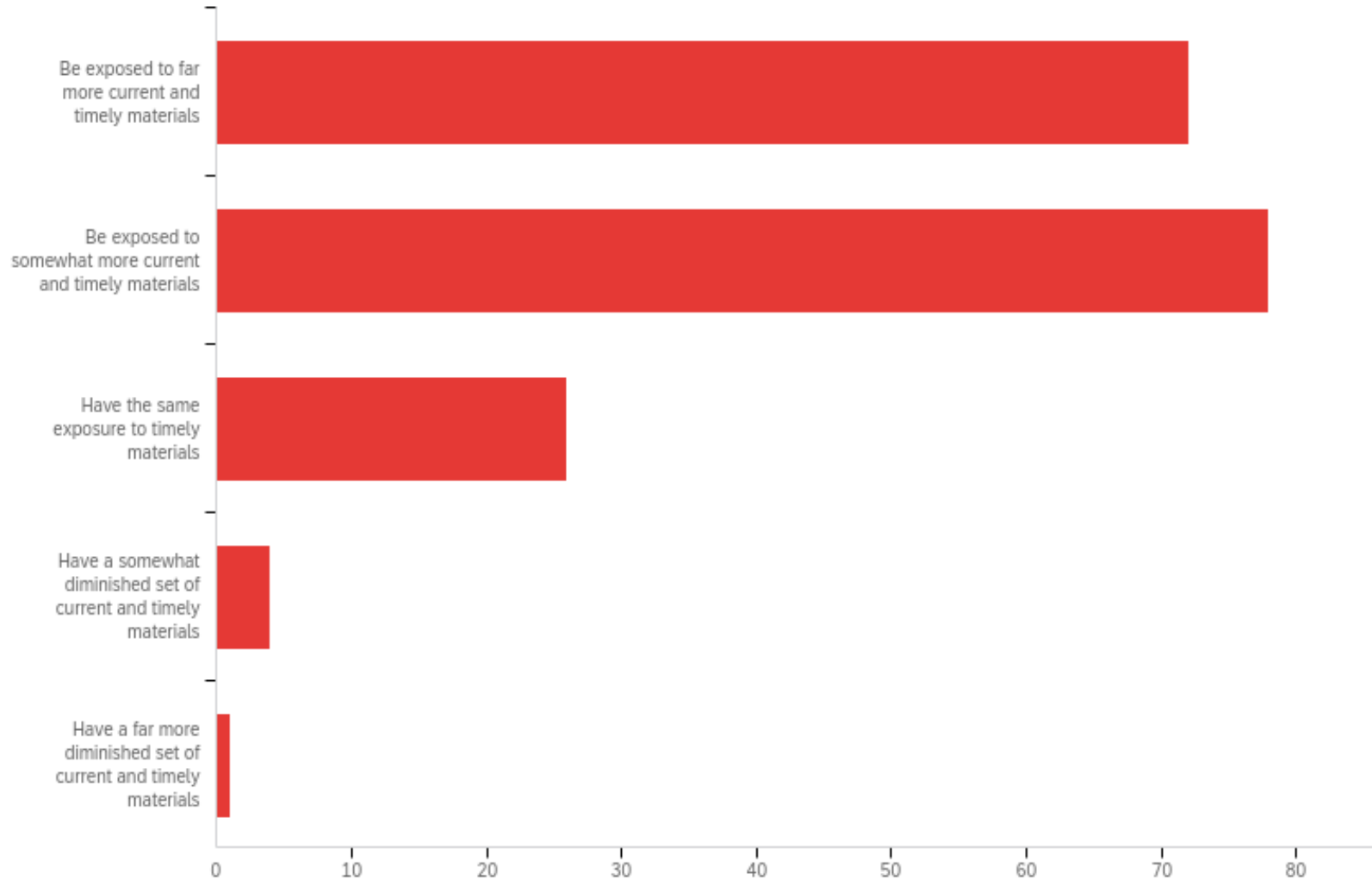
Q15 - Because of frequent updates to a repository, students enrolled in a course that utilizes a repository, will likely:

| #	Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
1	Because of frequent updates to a repository, students enrolled in a course that utilizes a repository, will likely:	1.00	5.00	1.81	0.80	0.64	181

Q15 - Because of frequent updates to a repository, students enrolled in a course that utilizes a repository, will likely:

#	Answer	%	Count
1	Be exposed to far more current and timely materials	39.78%	72
2	Be exposed to somewhat more current and timely materials	43.09%	78
3	Have the same exposure to timely materials	14.36%	26
4	Have a somewhat diminished set of current and timely materials	2.21%	4
5	Have a far more diminished set of current and timely materials	0.55%	1

Q15 - Because of frequent updates to a repository, students enrolled in a course that utilizes a repository, will likely:
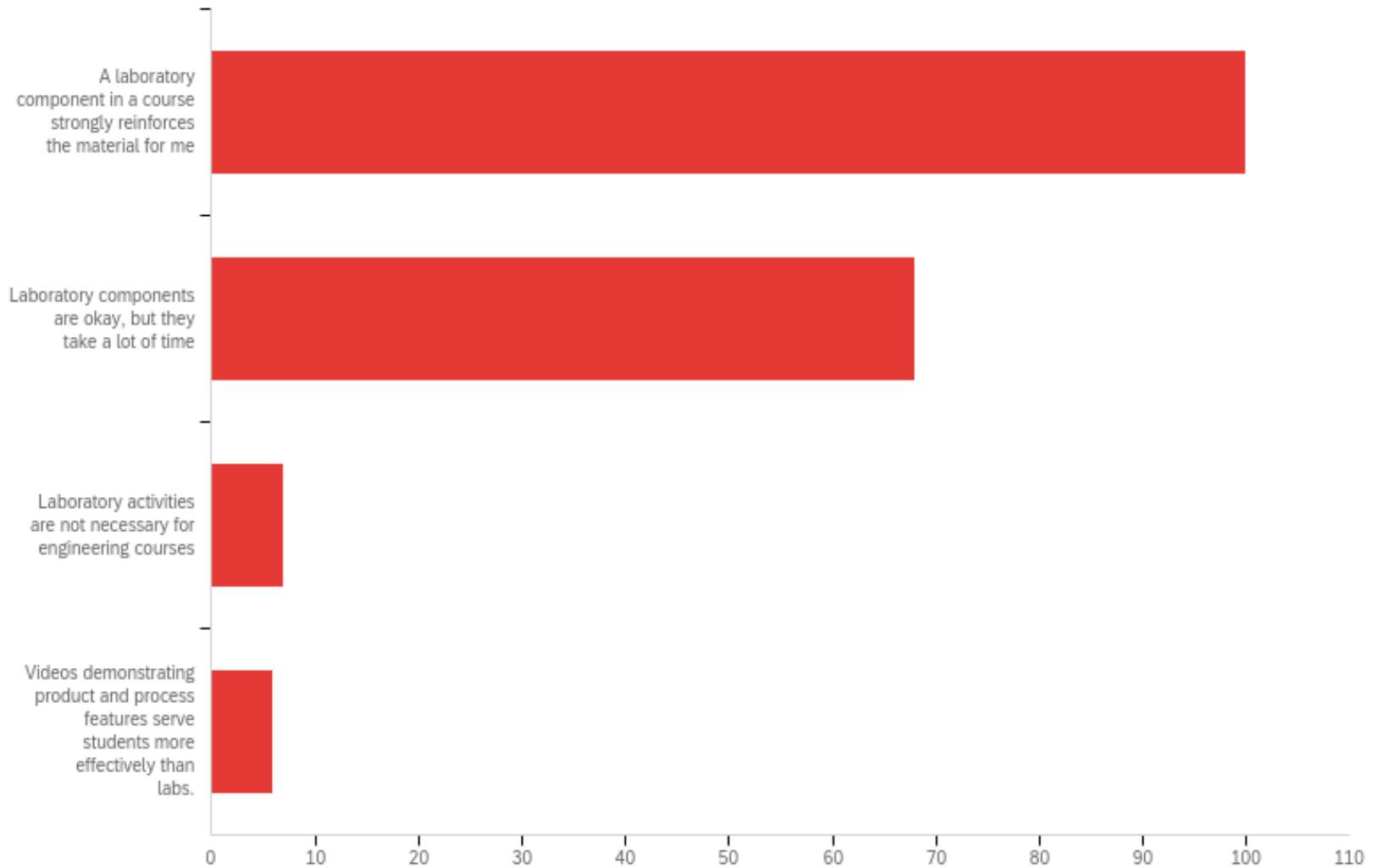
#	Answer	%	Count
	Total	100%	181

Q16 - As a general rule for engineering courses:
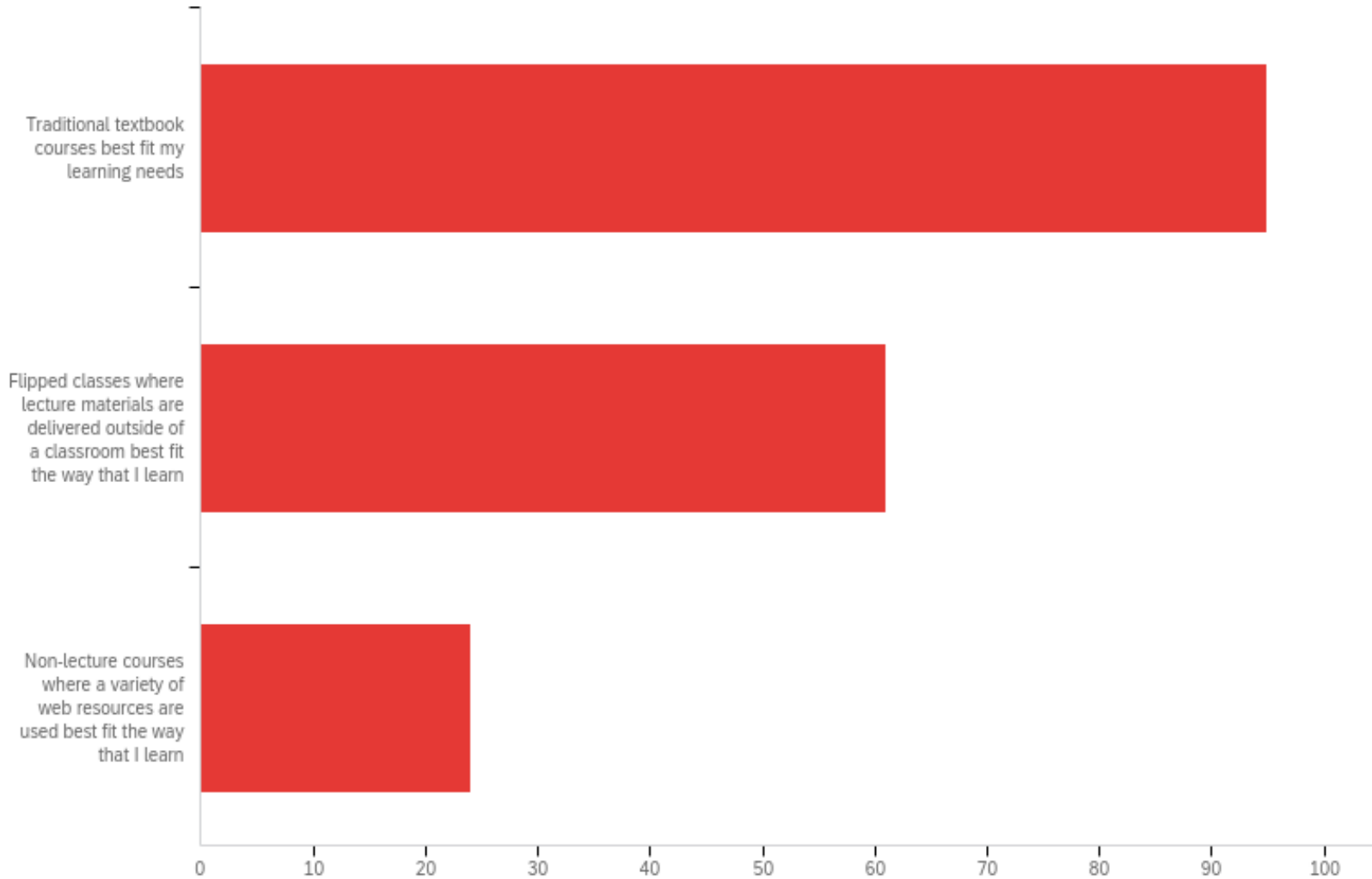
Q16 - As a general rule for engineering courses:

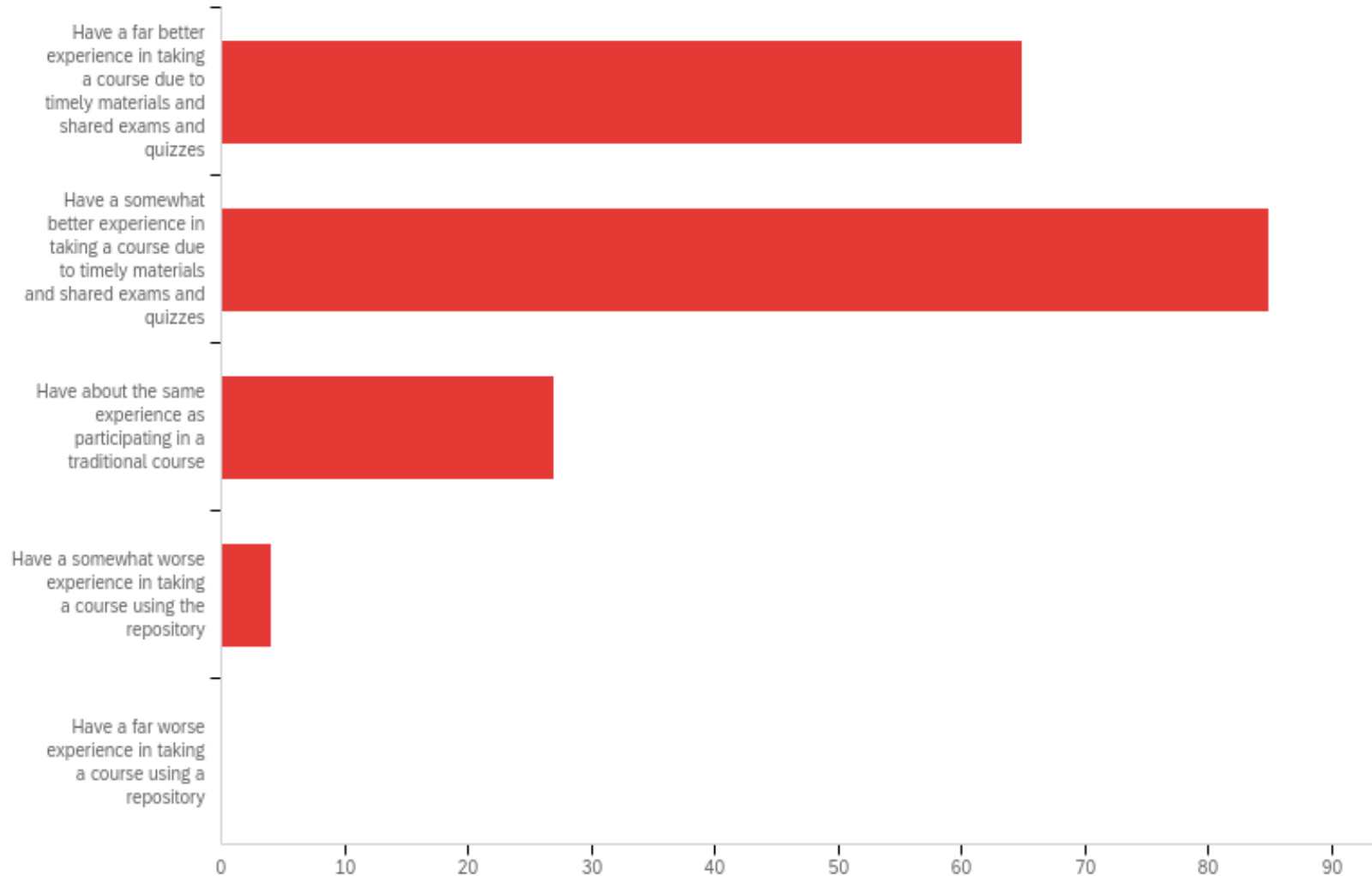| #	Answer	%	Count
1	Traditional textbook courses best fit my learning needs	52.78%	95
2	Flipped classes where lecture materials are delivered outside of a classroom best fit the way that I learn	33.89%	61
3	Non-lecture courses where a variety of web resources are used best fit the way that I learn	13.33%	24
	Total	100%	180

Q17 - For engineering courses:

Q17 - For engineering courses:

#	Answer	%	Count
1	A laboratory component in a course strongly reinforces the material for me	55.25%	100
2	Laboratory components are okay, but they take a lot of time	37.57%	68
3	Laboratory activities are not necessary for engineering courses	3.87%	7
4	Videos demonstrating product and process features serve students more effectively than labs.	3.31%	6

# Q18 - Students enrolled in a course that utilizes   a repository, will likely:

Q18 - Students enrolled in a course that utilizes a repository, will likely:

#	Answer	%	Count
1	Have a far better experience in taking a course due to timely materials and shared exams and quizzes	35.91%	65
2	Have a somewhat better experience in taking a course due to timely materials and shared exams and quizzes	46.96%	85
3	Have about the same experience as participating in a traditional course	14.92%	27
4	Have a somewhat worse experience in taking a course using the repository	2.21%	4

Q18 - Students enrolled in a course that utilizes   a repository, will likely:

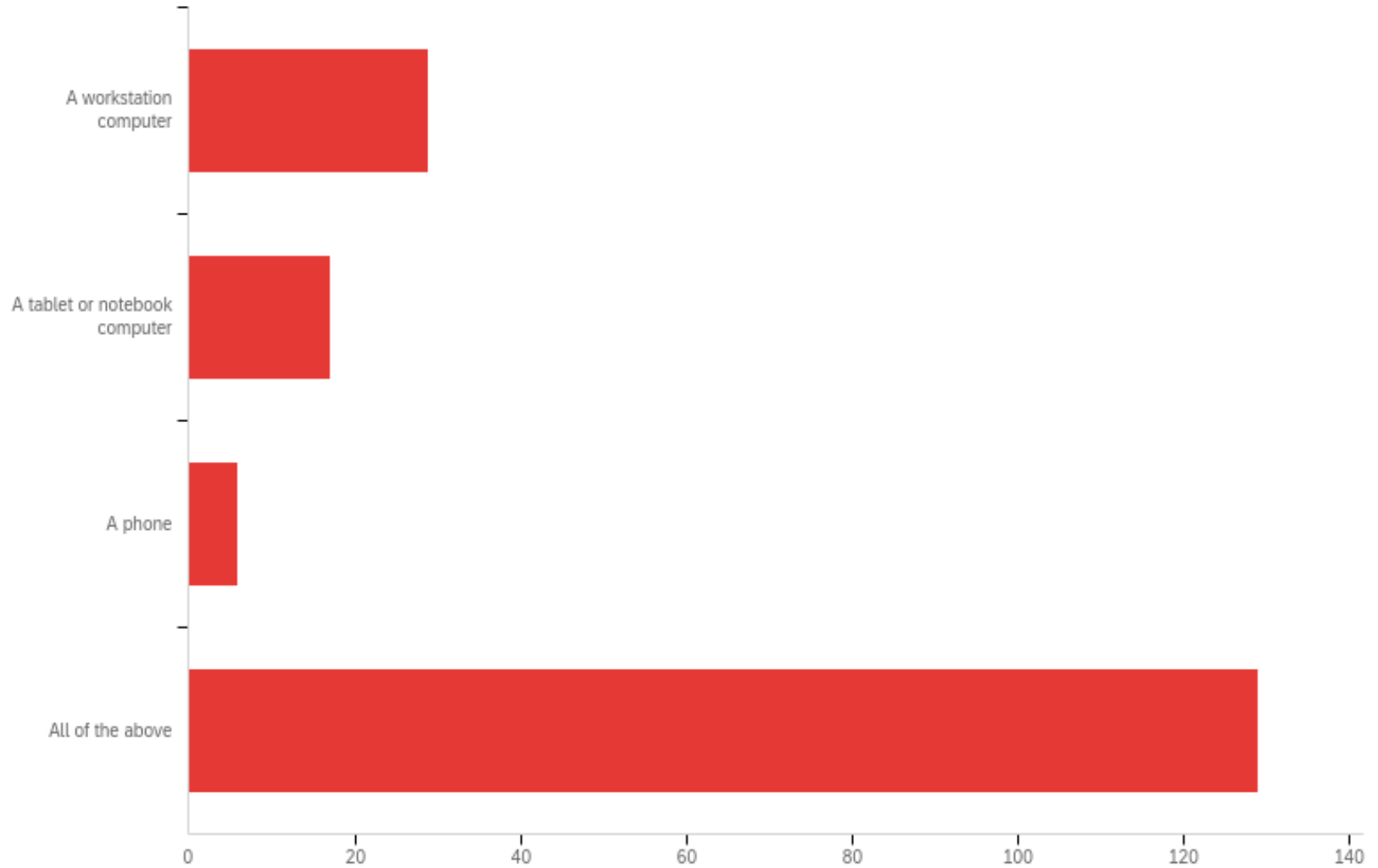| #	Answer	%	Count
5	Have a far worse experience in taking a course using a repository	0.00%	0
	Total	100%	181

Q19 - If the repository contained videos / data from lab experiments that would illustrate concepts I would:
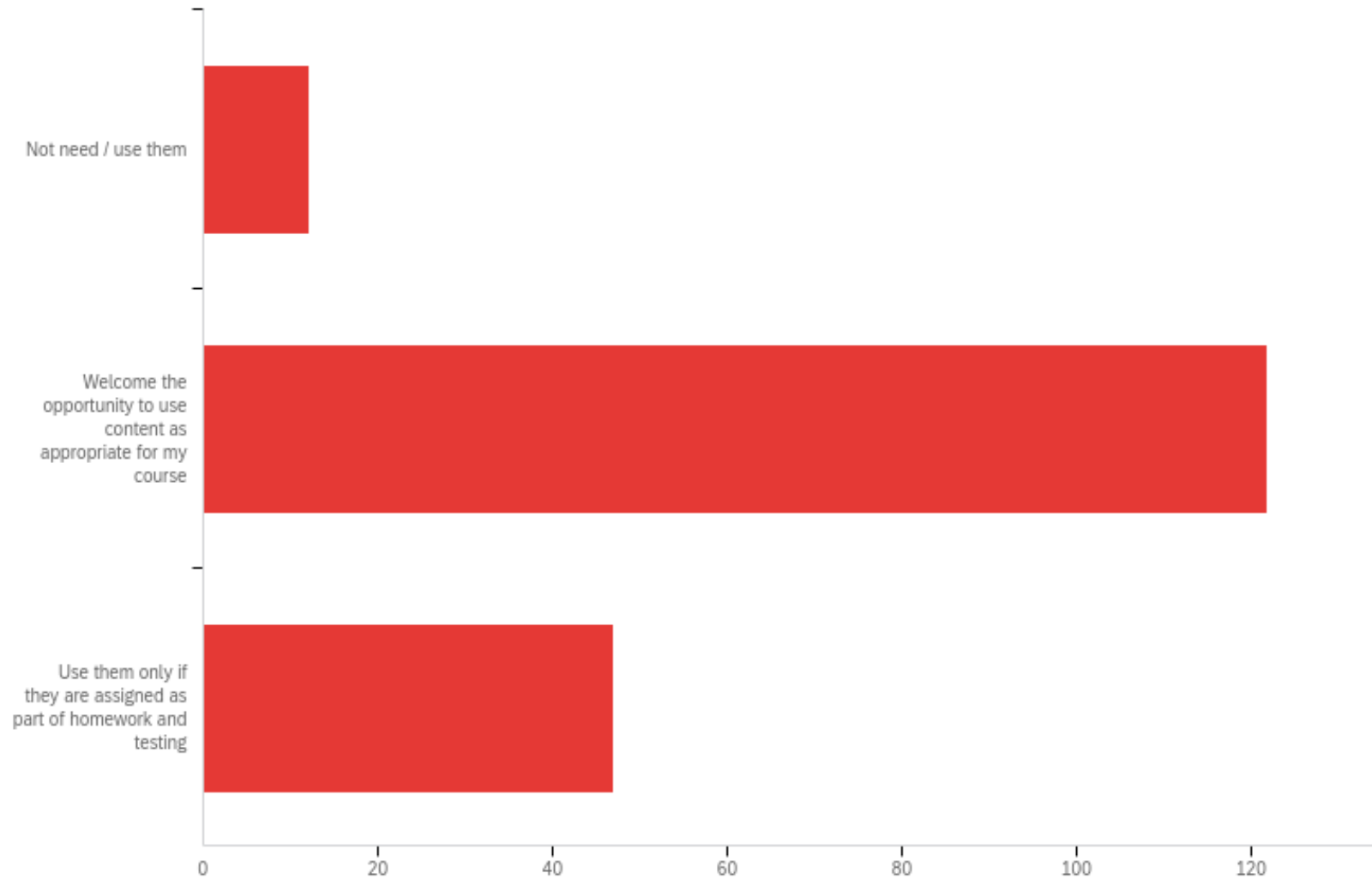
Q19 - If the repository contained videos / data from lab experiments that would illustrate concepts I would:

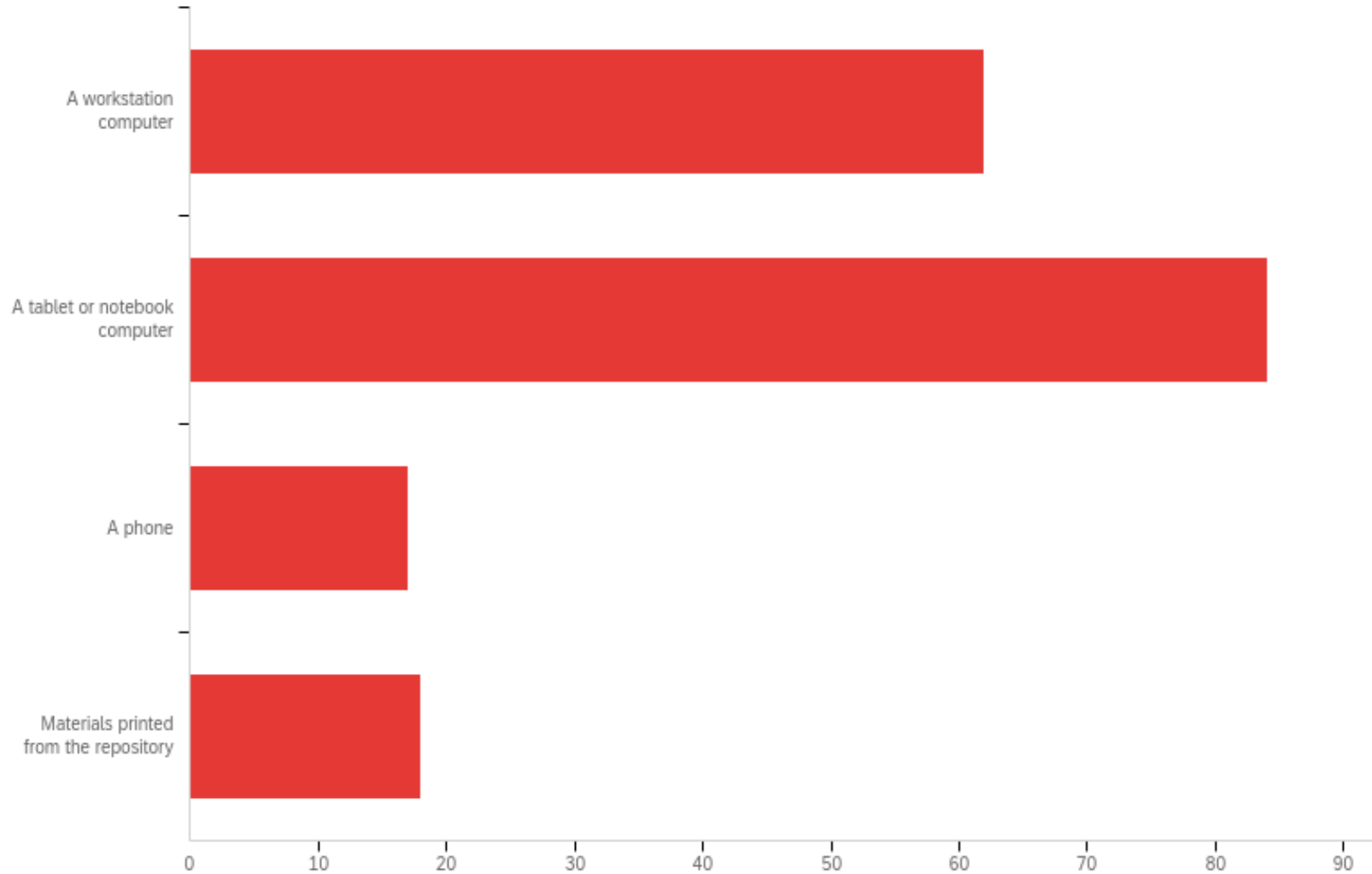| #	Answer	%	Count
1	Not need / use them	6.63%	12
2	Welcome the opportunity to use content as appropriate for my course	67.40%	122
3	Use them only if they are assigned as part of homework and testing	25.97%	47
	Total	100%	181

Q20 - The repository should be designed for use primarily on:

Q20 - The repository should be designed for use primarily on:

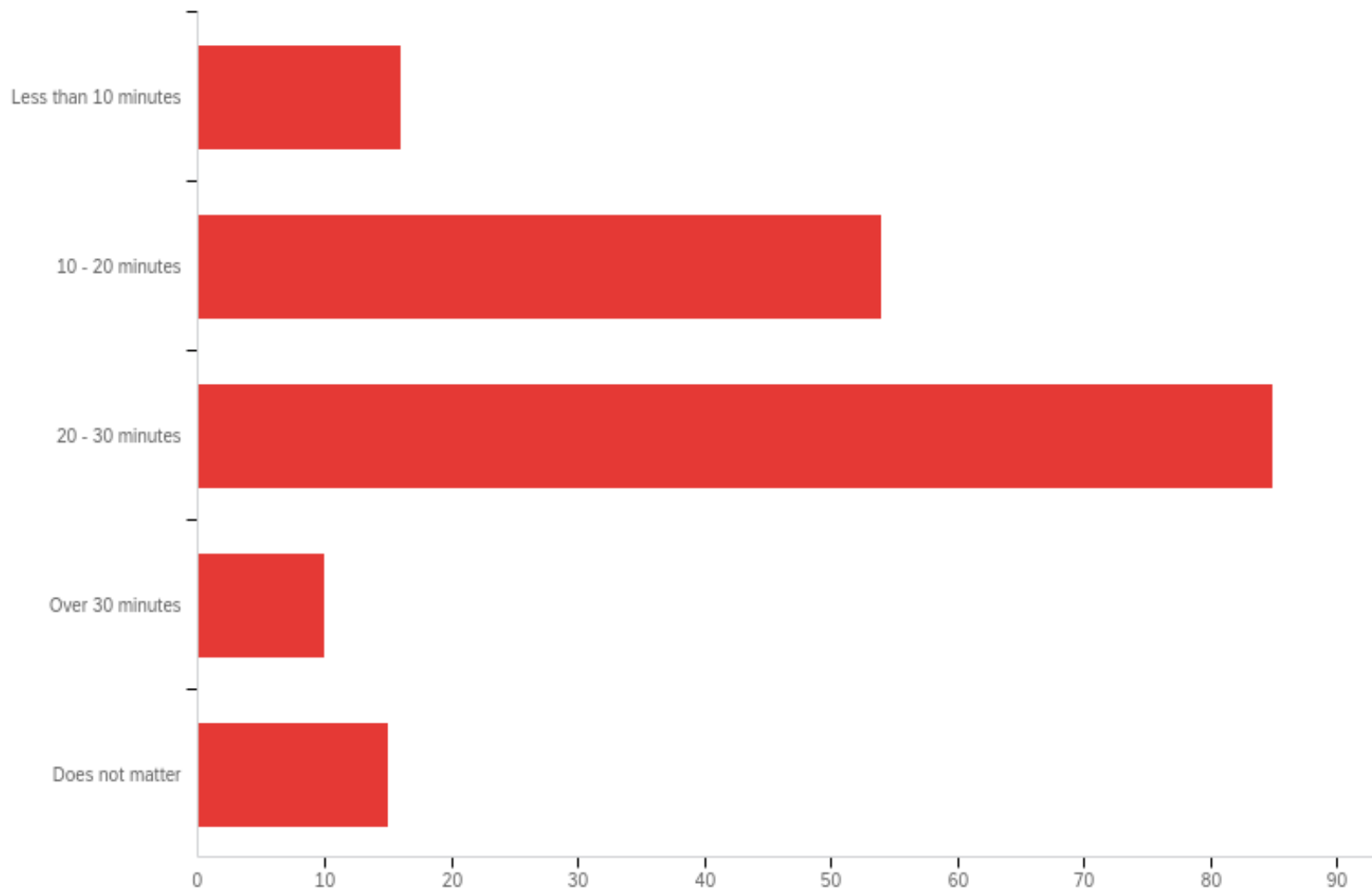| #	Answer	%	Count
1	A workstation computer	16.02%	29
2	A tablet or notebook computer	9.39%	17
3	A phone	3.31%	6
4	All of the above	71.27%	129
	Total	100%	181

Q22 - In a repository-based course, I would primarily use:

Q22 - In a repository-based course, I would primarily use:

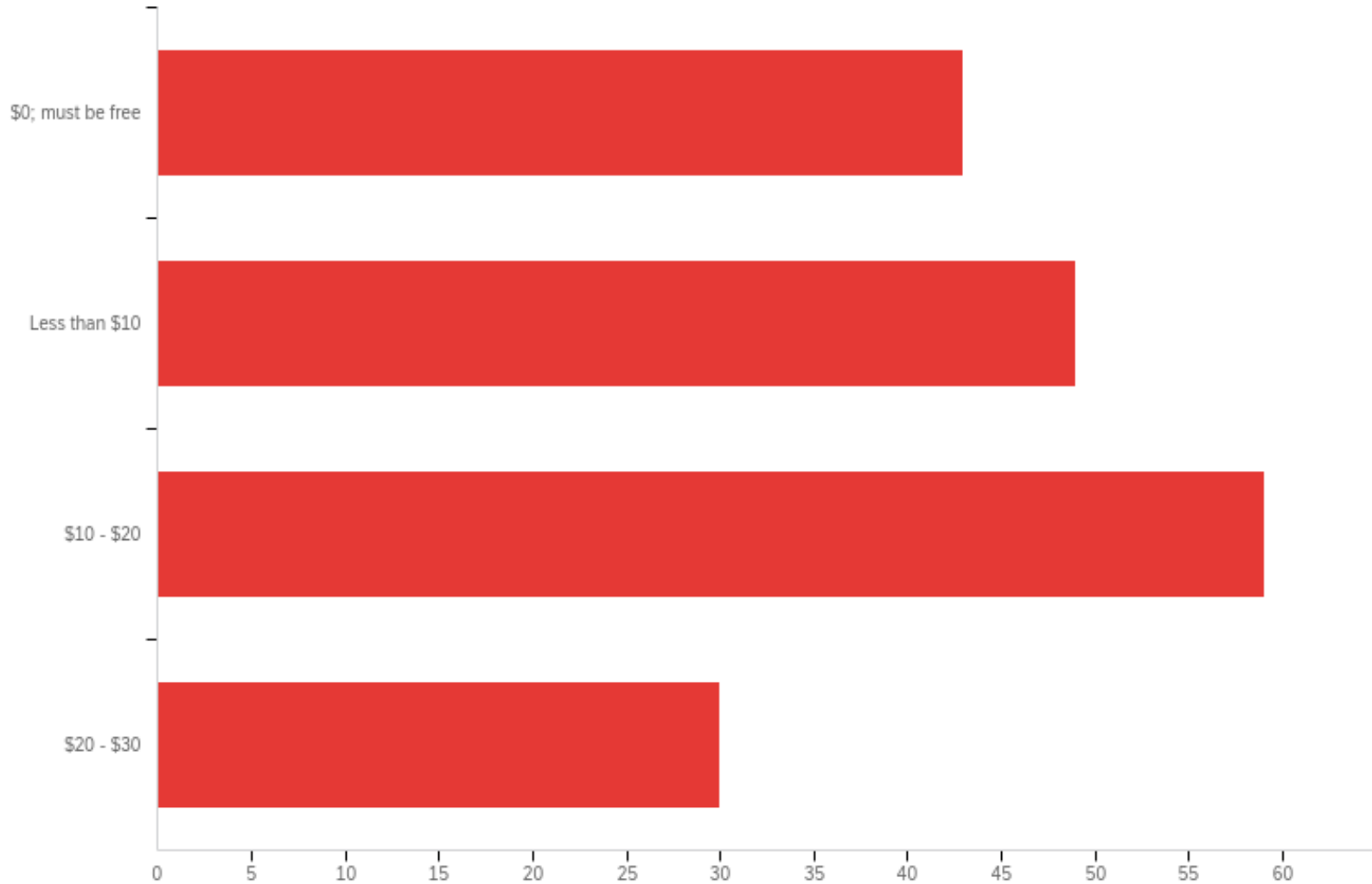| #	Answer	%	Count
1	A workstation computer	34.25%	62
2	A tablet or notebook computer	46.41%	84
3	A phone	9.39%	17
4	Materials printed from the repository	9.94%	18
	Total	100%	181

Q21 - I prefer course materials to be broken into small chunks that can be consumed in:

Q21 - I prefer course materials to be broken into small chunks that can be consumed in:

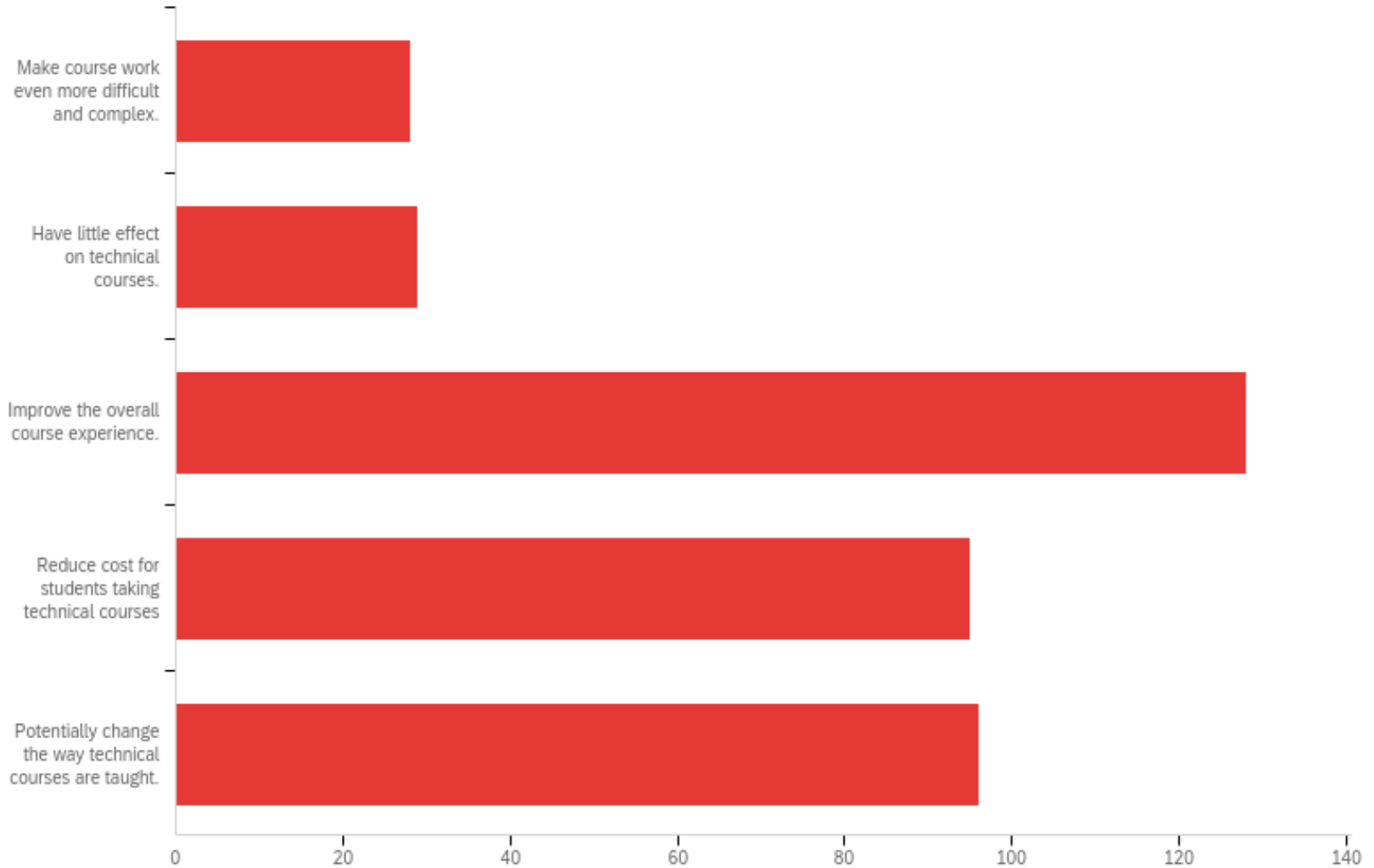| #	Answer	%	Count
1	Less than 10 minutes	8.89%	16
2	10 - 20 minutes	30.00%	54
3	20 - 30 minutes	47.22%	85
4	Over 30 minutes	5.56%	10
5	Does not matter	8.33%	15
	Total	100%	180

Q23 - I would be willing to pay _____ to use and support the electronic repository if it replaced a book:

Q23 - I would be willing to pay _____ to use and support the electronic repository if it replaced a book:

#	Answer	%	Count
1	$0; must be free	23.76%	43
2	Less than $10	27.07%	49
3	$10 - $20	32.60%	59
4	$20 - $30	16.57%	30
	Total	100%	181

Q24 - In my opinion, using a focused technical repository in advanced manufacturing courses will: (pick all that apply)

Q24 - In my opinion, using a focused technical repository in advanced manufacturing courses will: (pick all that apply)

#	Answer	%	Count
1	Make course work even more difficult and complex.	7.45%	28
2	Have little effect on technical courses.	7.71%	29
3	Improve the overall course experience.	34.04%	128
4	Reduce cost for students taking technical courses	25.27%	95
5	Potentially change the way technical courses are taught.	25.53%	96
	Total	100%	376

Conclusions

- Students appear positive about using a national repository for a technical course in advanced manufacturing
- Save money
- Save time
- Improve quality
- Keep course more current