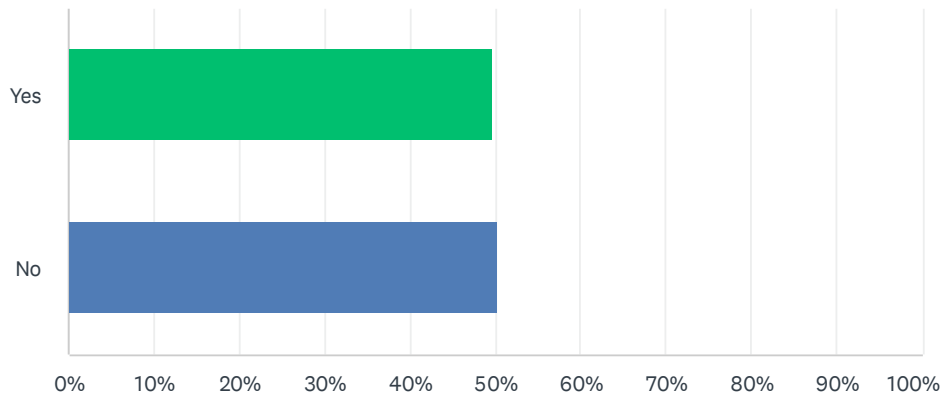


Q1 This survey requires an understanding of Python code. Are you familiar with Python as a programming language?

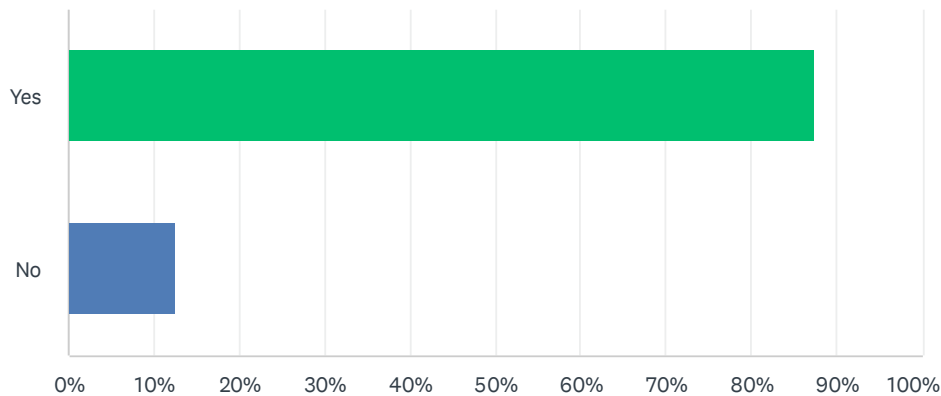
Answered: 231 Skipped: 8



ANSWER CHOICES	RESPONSES	
Yes	49.78%	115
No	50.22%	116
TOTAL		231

Q2 Statement of ConsentI agree to participate in the study and use my answers described above. Further, I agree to print a copy of this consent form for my records if I deem it appropriate.

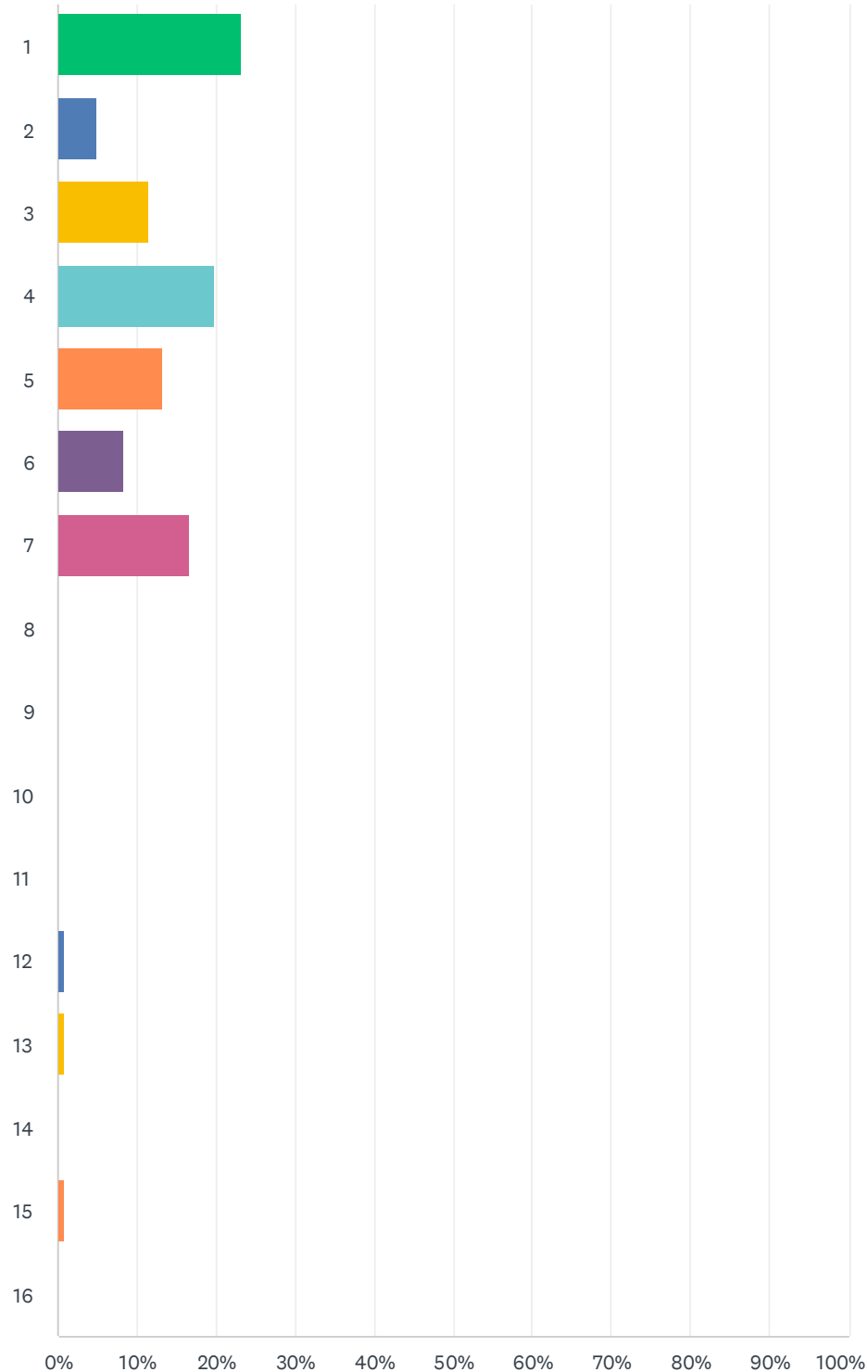
Answered: 8 Skipped: 231



ANSWER CHOICES	RESPONSES	
Yes	87.50%	7
No	12.50%	1
TOTAL		8

Q3 Please select the FIRST number in the list and click NEXT.(This question is used as a randomization mechanism)

Answered: 121 Skipped: 118

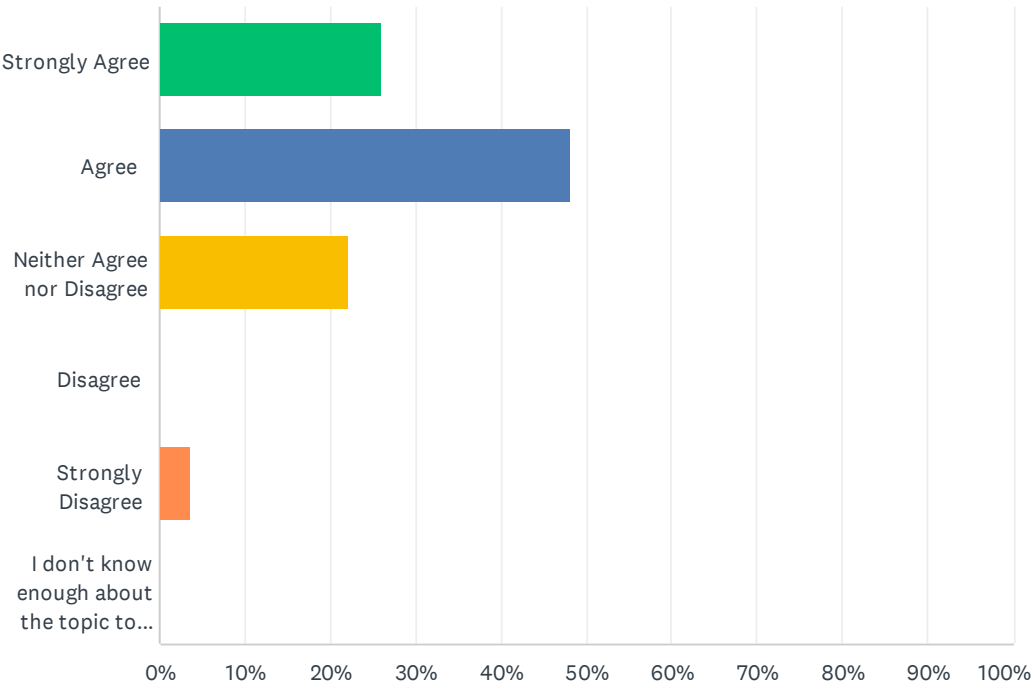


Automatic Feedback using Large Language Models

ANSWER CHOICES	RESPONSES	
1	23.14%	28
2	4.96%	6
3	11.57%	14
4	19.83%	24
5	13.22%	16
6	8.26%	10
7	16.53%	20
8	0.00%	0
9	0.00%	0
10	0.00%	0
11	0.00%	0
12	0.83%	1
13	0.83%	1
14	0.00%	0
15	0.83%	1
16	0.00%	0
TOTAL		121

Q4 The feedback provided contains the solution to the problem.

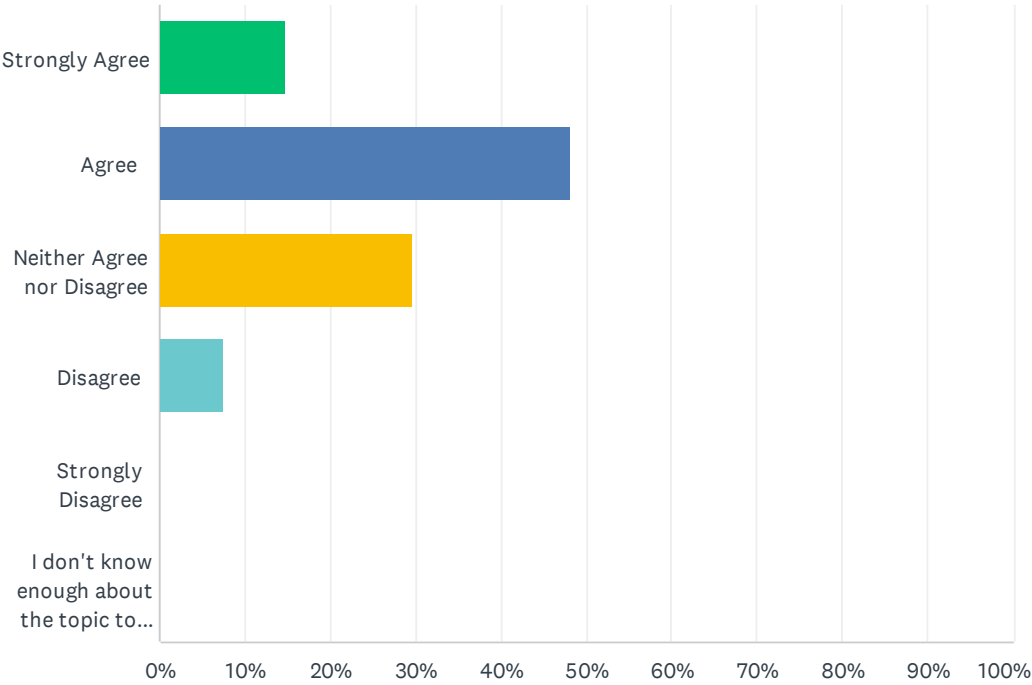
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	25.93%	7
Agree	48.15%	13
Neither Agree nor Disagree	22.22%	6
Disagree	0.00%	0
Strongly Disagree	3.70%	1
I don't know enough about the topic to assess	0.00%	0
TOTAL		27

Q5 The feedback provided contains relevant information to advance towards the solution.

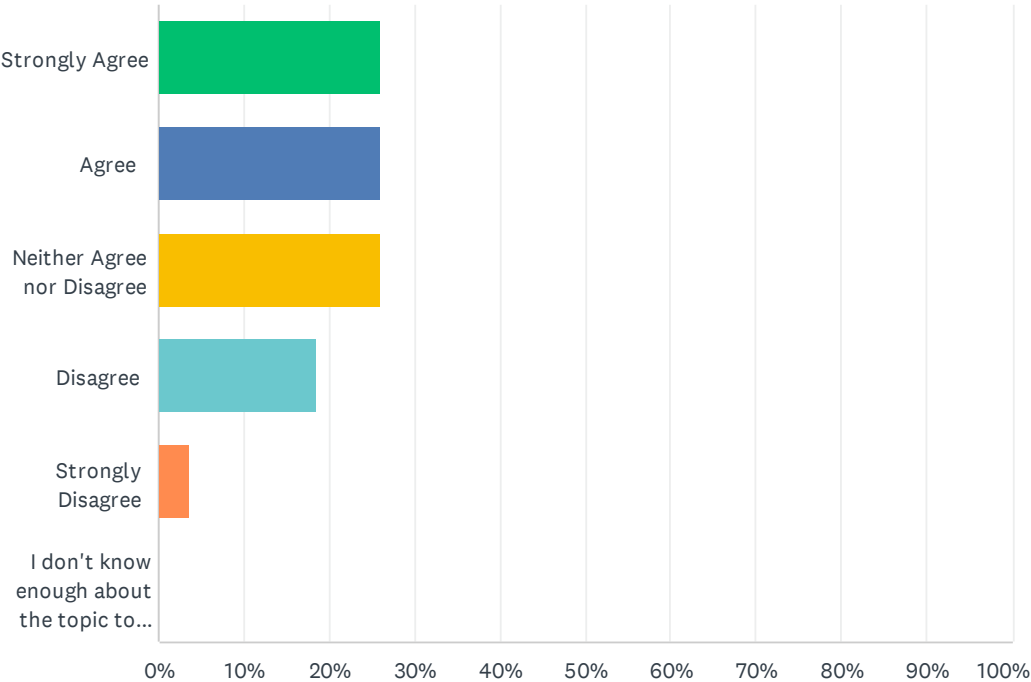
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	14.81%	4
Agree	48.15%	13
Neither Agree nor Disagree	29.63%	8
Disagree	7.41%	2
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		27

Q6 The feedback provided contains irrelevant information for solving the problem.

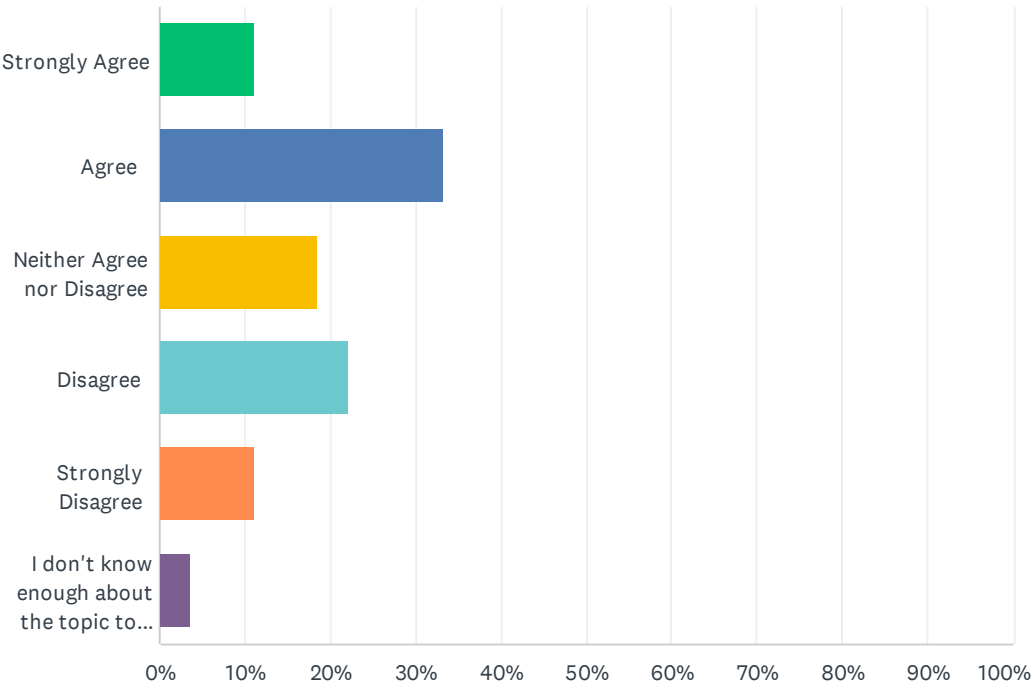
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	25.93%	7
Agree	25.93%	7
Neither Agree nor Disagree	25.93%	7
Disagree	18.52%	5
Strongly Disagree	3.70%	1
I don't know enough about the topic to assess	0.00%	0
TOTAL		27

Q7 The feedback provided contains the solution to the problem.

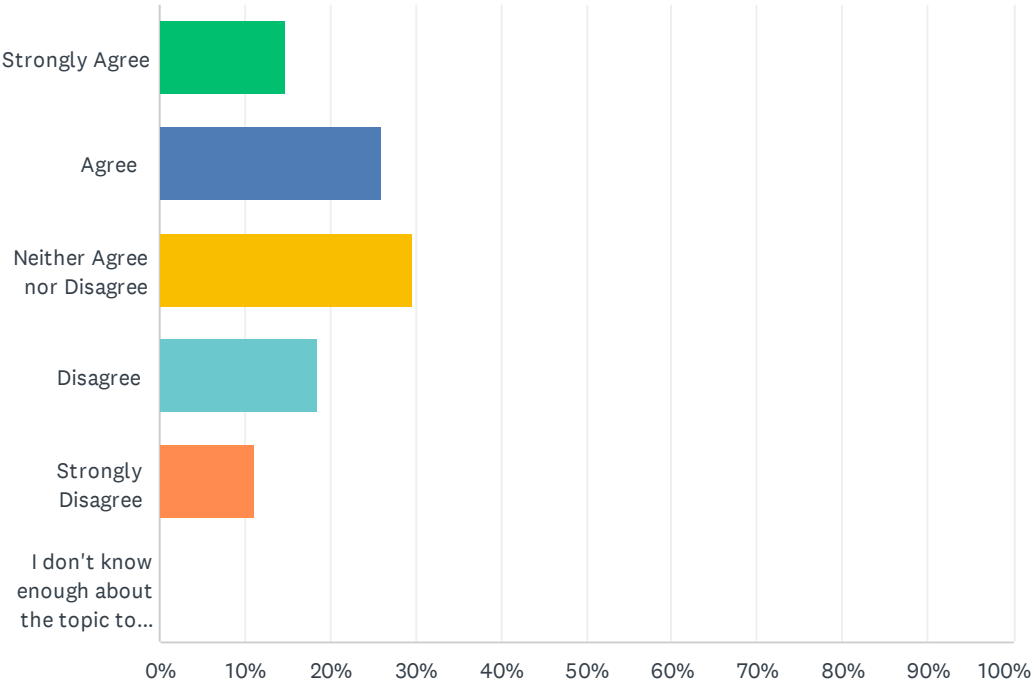
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	11.11%	3
Agree	33.33%	9
Neither Agree nor Disagree	18.52%	5
Disagree	22.22%	6
Strongly Disagree	11.11%	3
I don't know enough about the topic to assess	3.70%	1
TOTAL		27

Q8 The feedback provided contains relevant information to advance towards the solution.

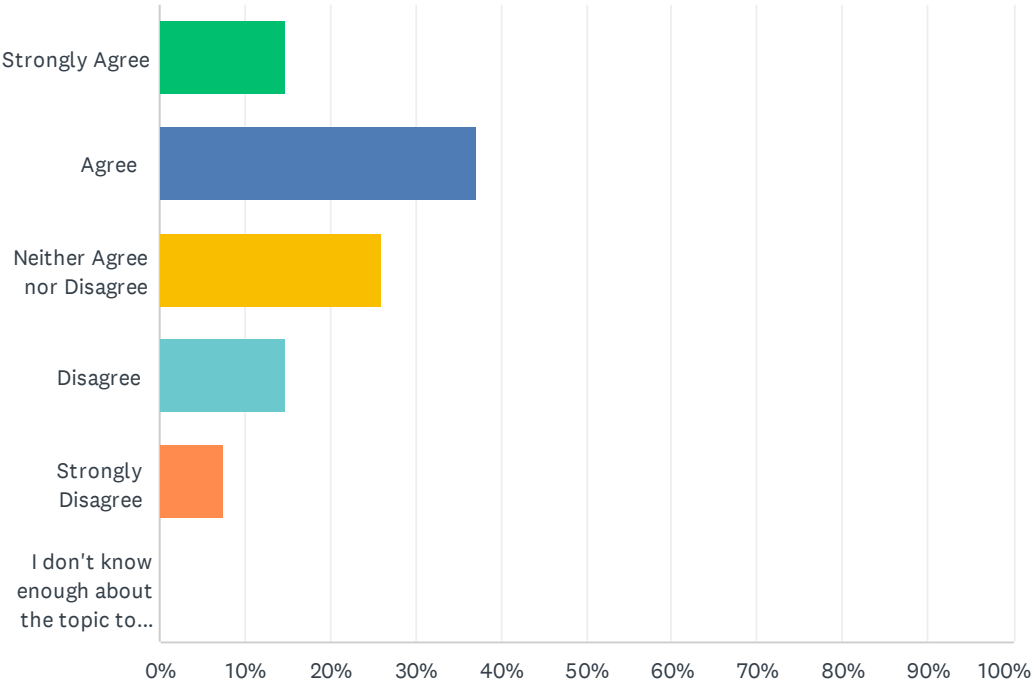
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	14.81%	4
Agree	25.93%	7
Neither Agree nor Disagree	29.63%	8
Disagree	18.52%	5
Strongly Disagree	11.11%	3
I don't know enough about the topic to assess	0.00%	0
TOTAL		27

Q9 The feedback provided contains irrelevant information for solving the problem.

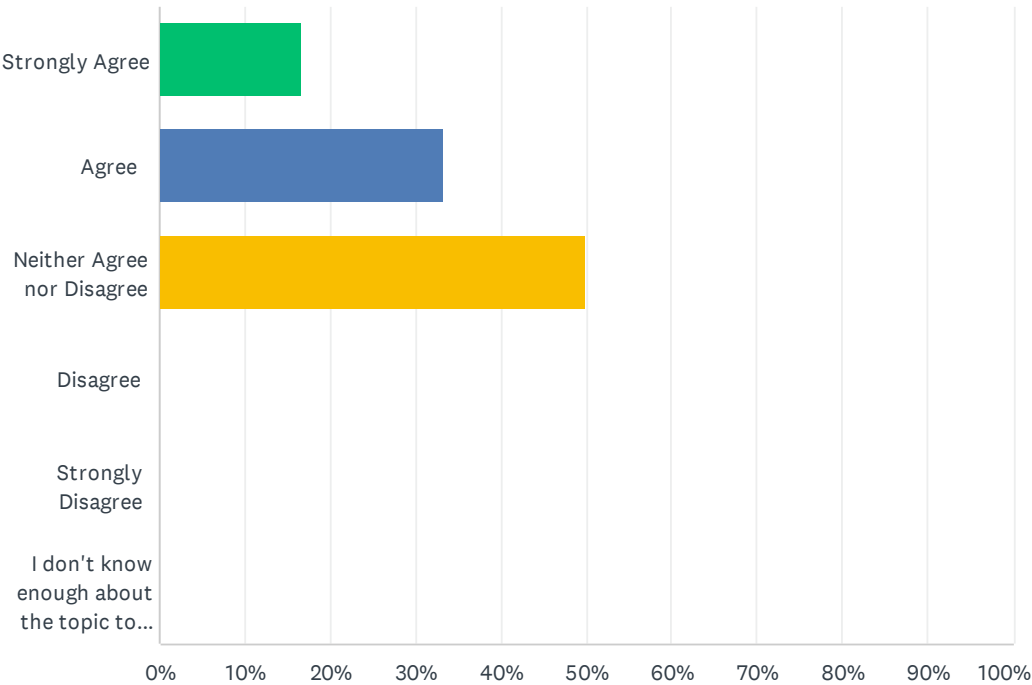
Answered: 27 Skipped: 212



ANSWER CHOICES	RESPONSES	
Strongly Agree	14.81%	4
Agree	37.04%	10
Neither Agree nor Disagree	25.93%	7
Disagree	14.81%	4
Strongly Disagree	7.41%	2
I don't know enough about the topic to assess	0.00%	0
TOTAL		27

Q10 The feedback provided contains the solution to the problem.

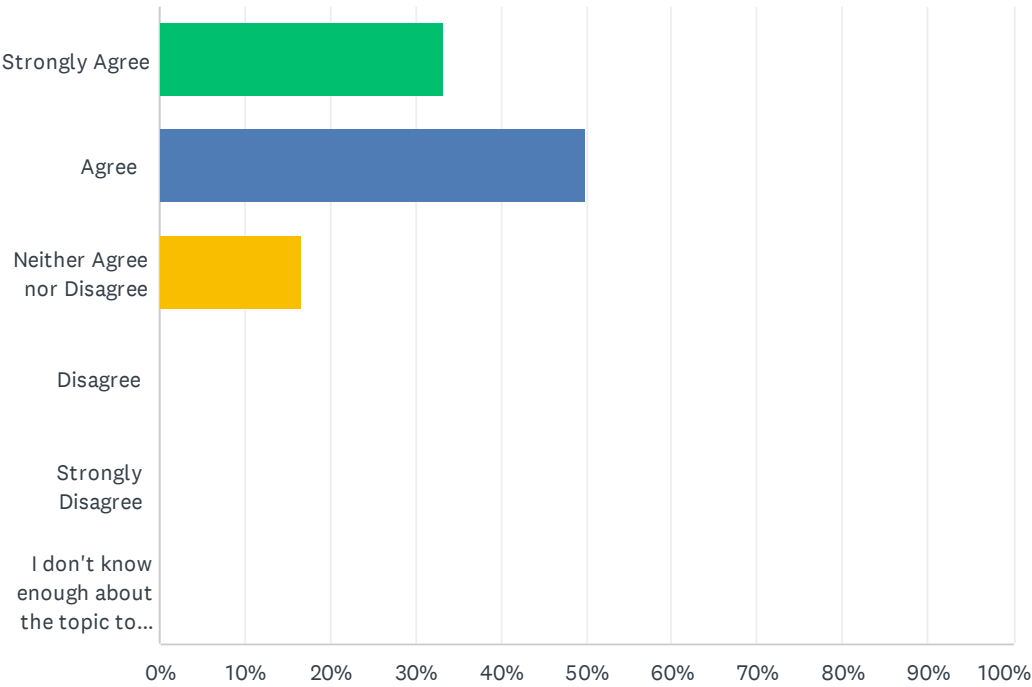
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	16.67%	1
Agree	33.33%	2
Neither Agree nor Disagree	50.00%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q11 The feedback provided contains relevant information to advance towards the solution.

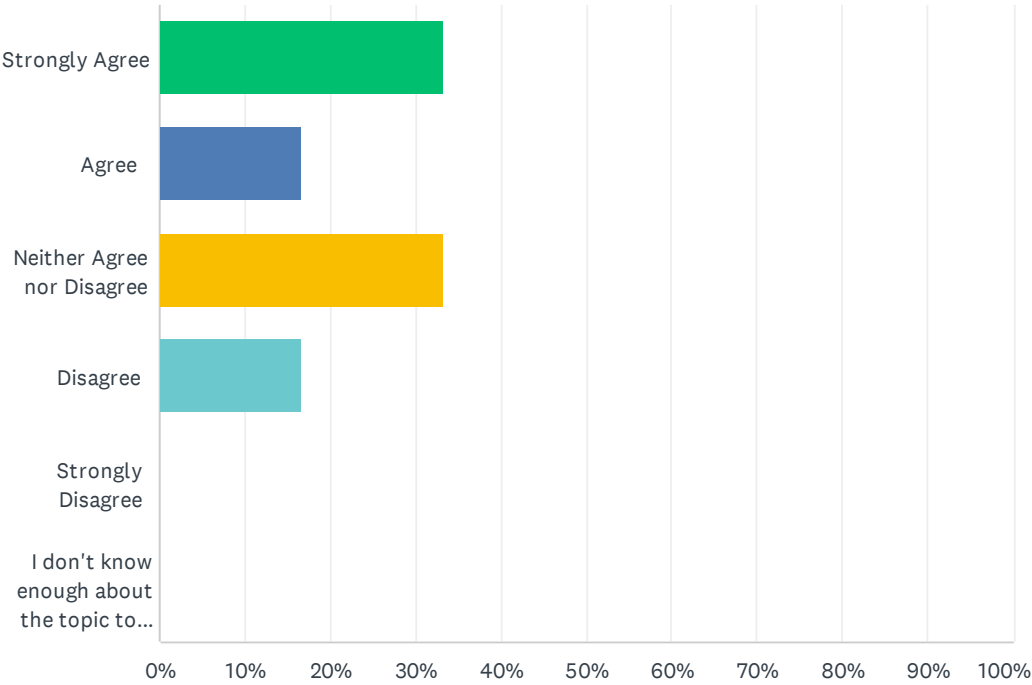
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	33.33%	2
Agree	50.00%	3
Neither Agree nor Disagree	16.67%	1
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q12 The feedback provided contains irrelevant information for solving the problem.

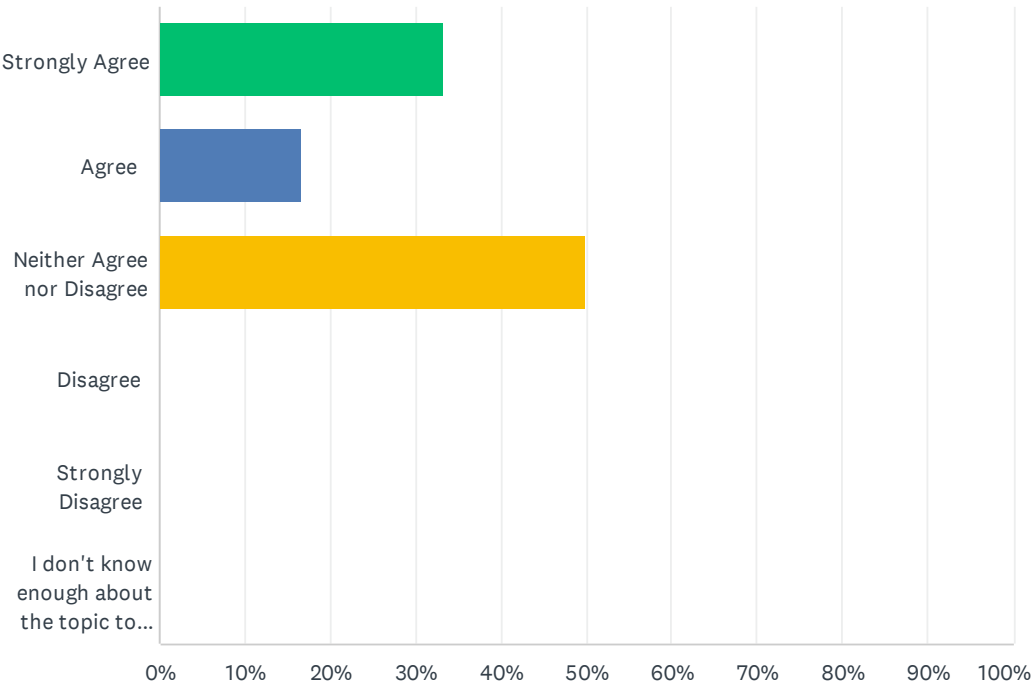
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	33.33%	2
Agree	16.67%	1
Neither Agree nor Disagree	33.33%	2
Disagree	16.67%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q13 The feedback provided contains the solution to the problem.

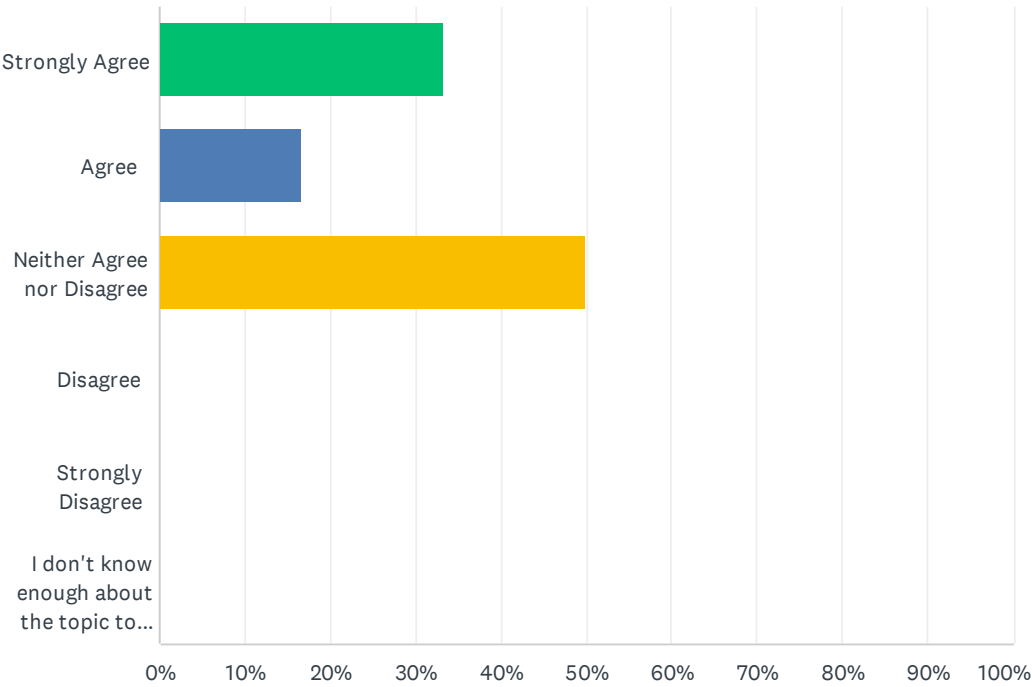
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	33.33%	2
Agree	16.67%	1
Neither Agree nor Disagree	50.00%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q14 The feedback provided contains relevant information to advance towards the solution.

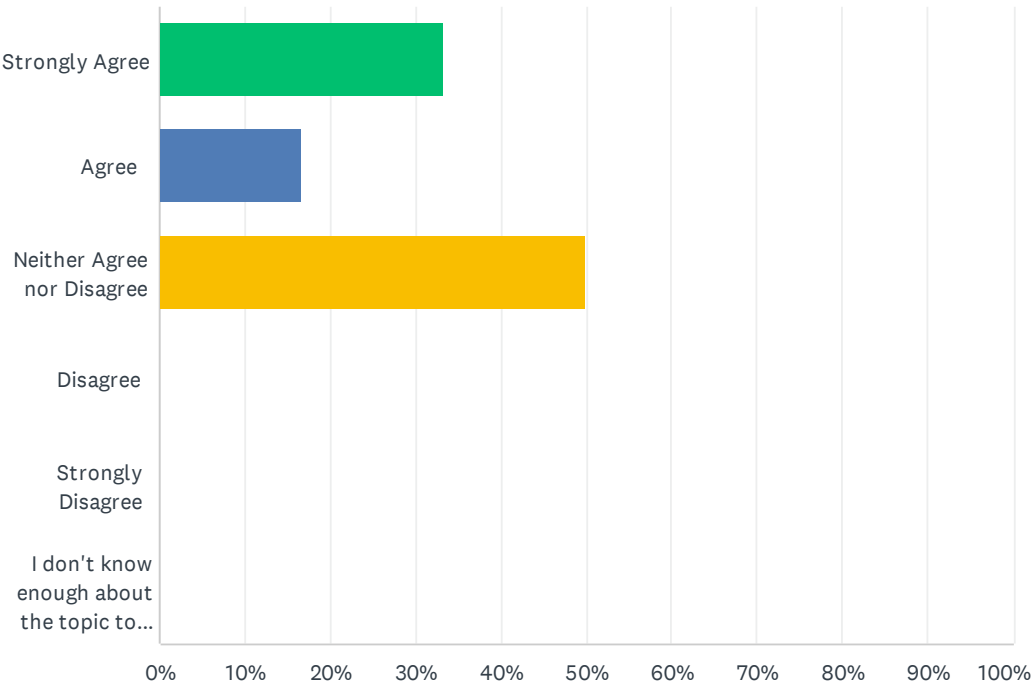
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	33.33%	2
Agree	16.67%	1
Neither Agree nor Disagree	50.00%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q15 The feedback provided contains irrelevant information for solving the problem.

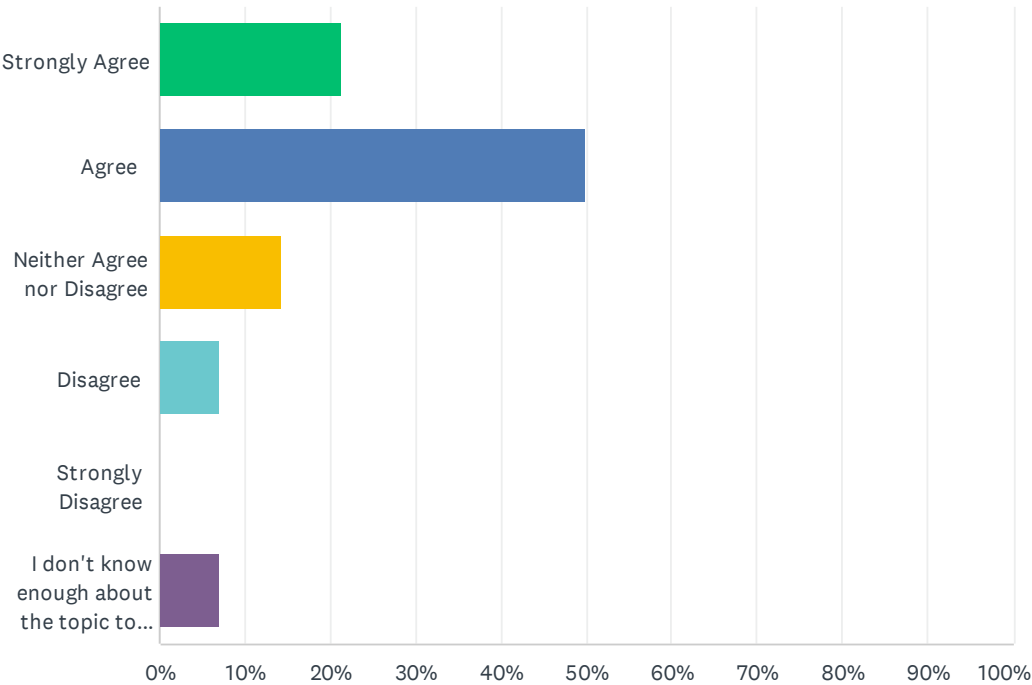
Answered: 6 Skipped: 233



ANSWER CHOICES	RESPONSES	
Strongly Agree	33.33%	2
Agree	16.67%	1
Neither Agree nor Disagree	50.00%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		6

Q16 The feedback provided contains the solution to the problem.

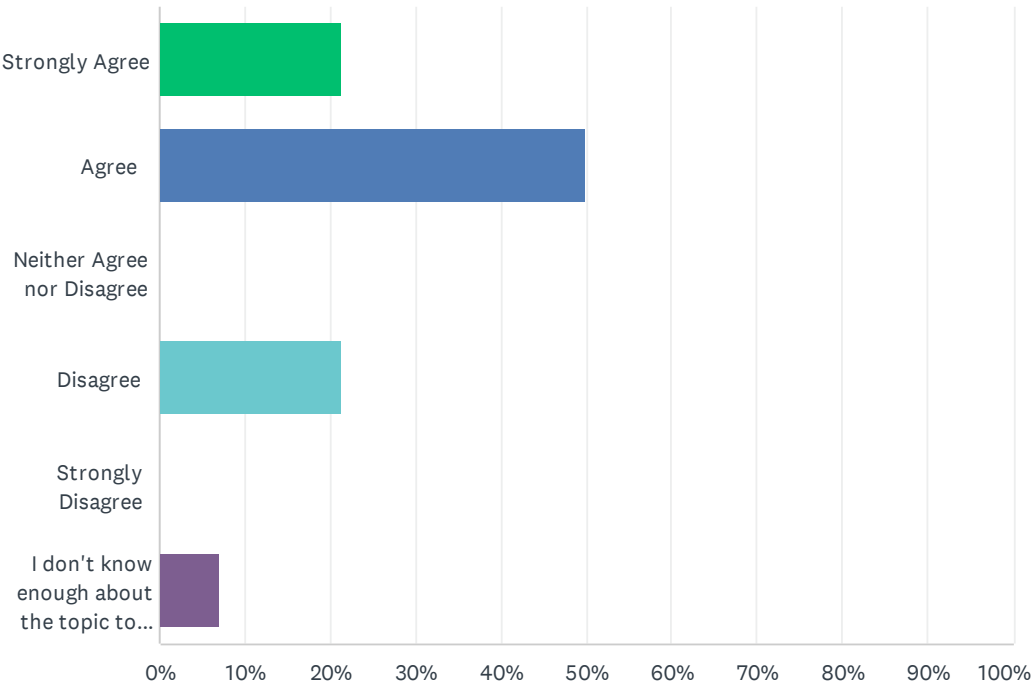
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	21.43%	3
Agree	50.00%	7
Neither Agree nor Disagree	14.29%	2
Disagree	7.14%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q17 The feedback provided contains relevant information to advance towards the solution.

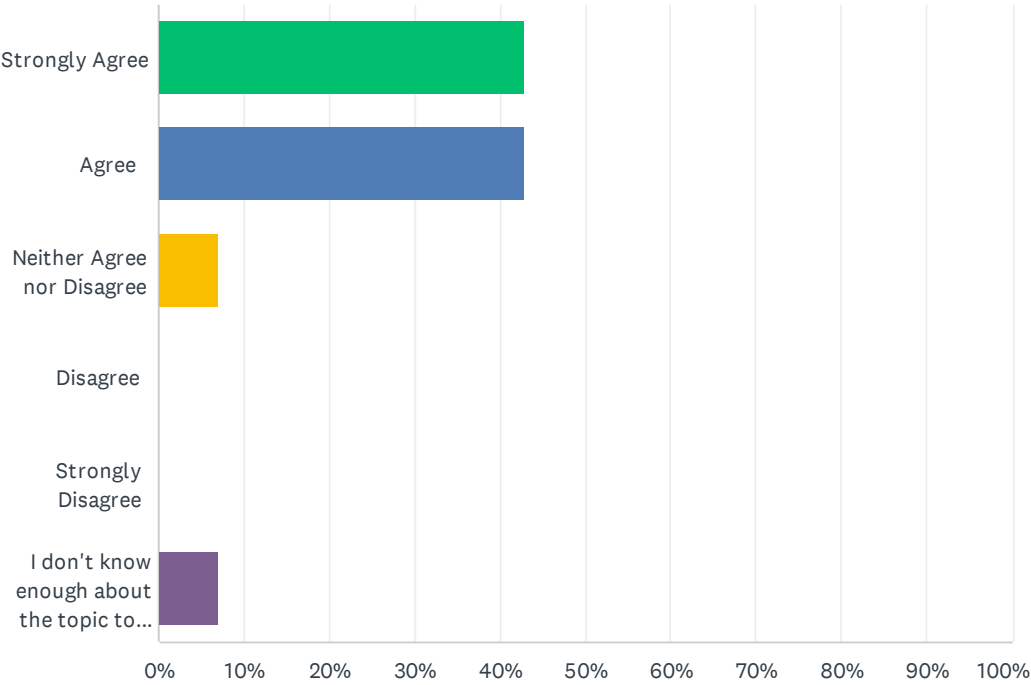
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	21.43%	3
Agree	50.00%	7
Neither Agree nor Disagree	0.00%	0
Disagree	21.43%	3
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q18 The feedback provided contains irrelevant information for solving the problem.

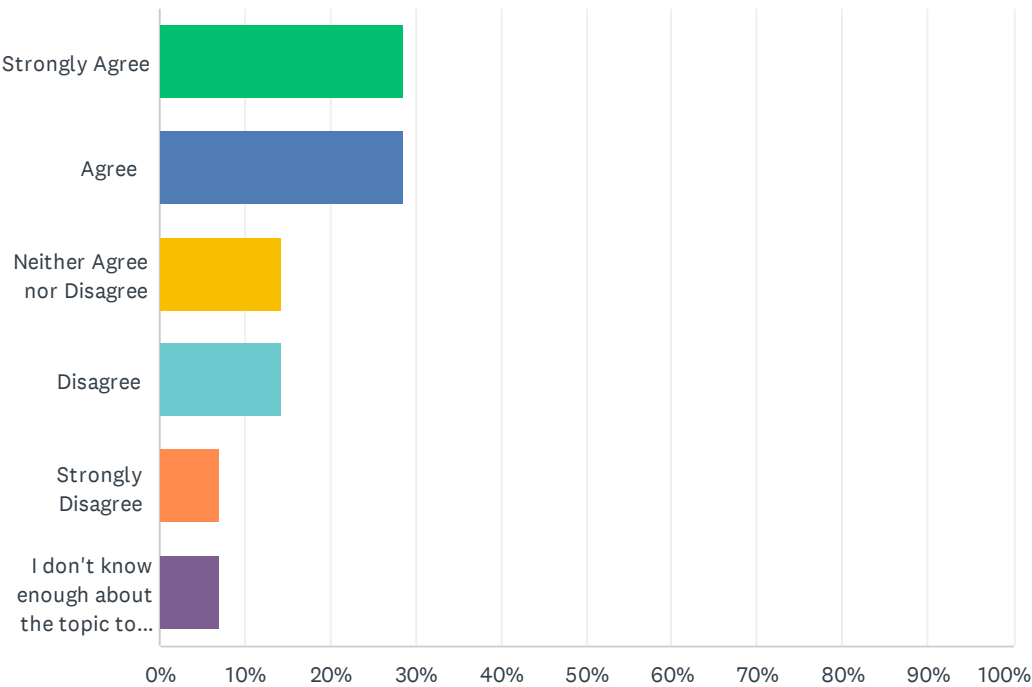
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	42.86%	6
Agree	42.86%	6
Neither Agree nor Disagree	7.14%	1
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q19 The feedback provided contains the solution to the problem.

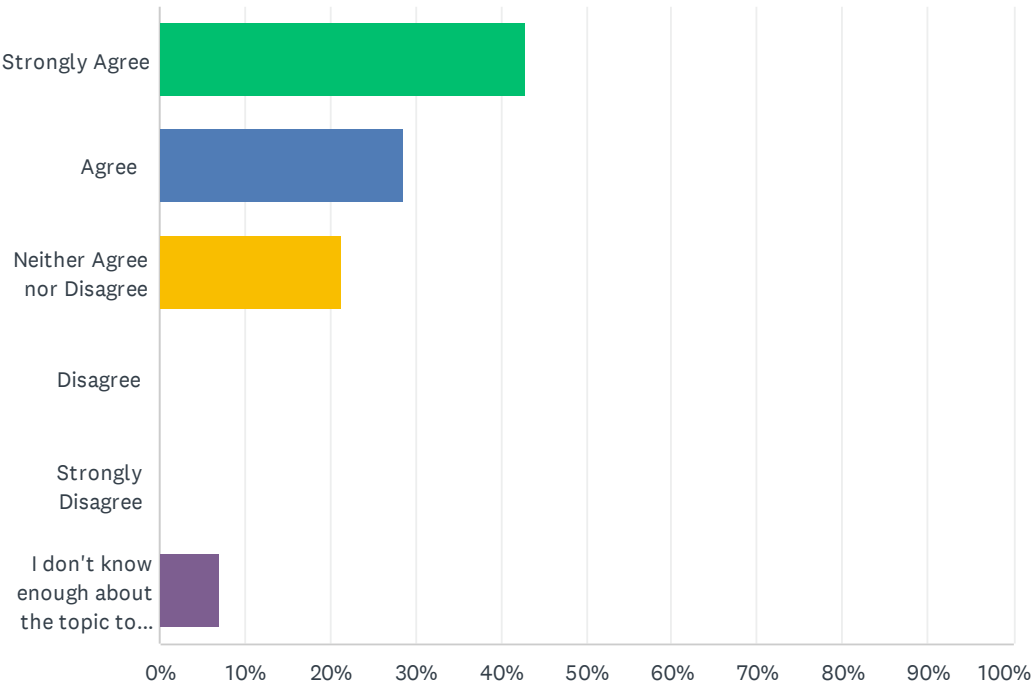
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	28.57%	4
Agree	28.57%	4
Neither Agree nor Disagree	14.29%	2
Disagree	14.29%	2
Strongly Disagree	7.14%	1
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q20 The feedback provided contains relevant information to advance towards the solution.

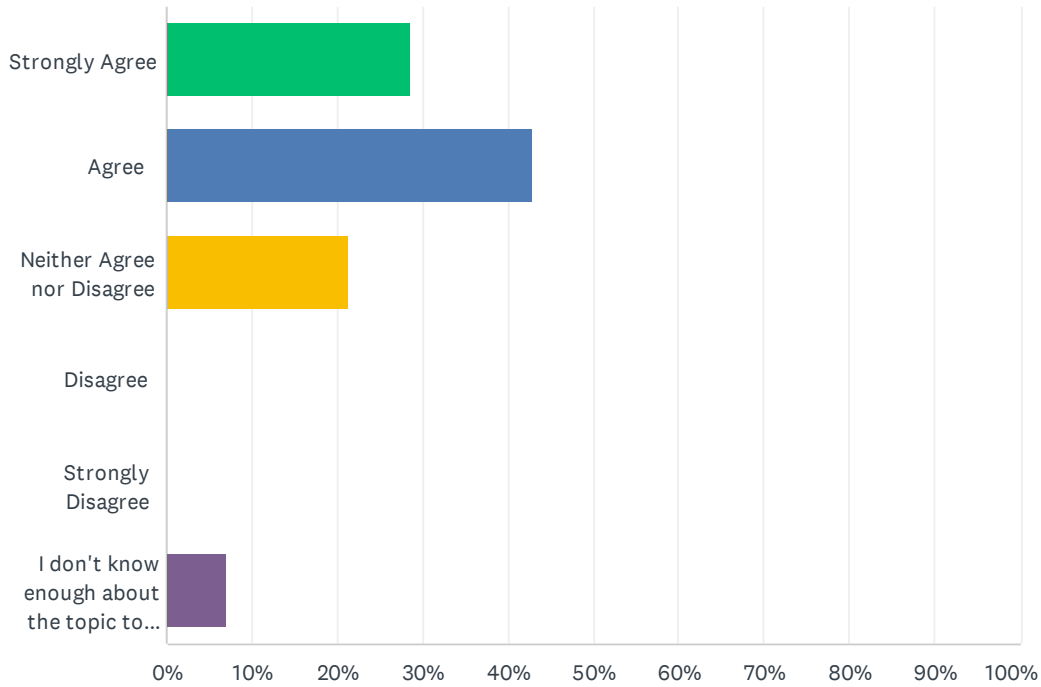
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	42.86%	6
Agree	28.57%	4
Neither Agree nor Disagree	21.43%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q21 The feedback provided contains irrelevant information for solving the problem.

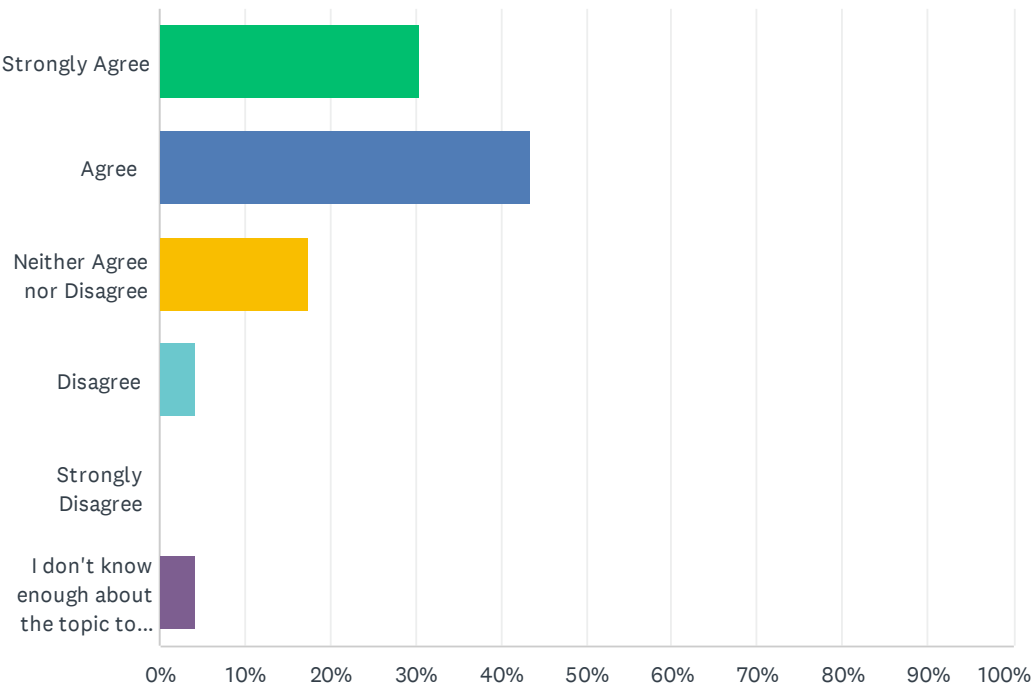
Answered: 14 Skipped: 225



ANSWER CHOICES	RESPONSES	
Strongly Agree	28.57%	4
Agree	42.86%	6
Neither Agree nor Disagree	21.43%	3
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	7.14%	1
TOTAL		14

Q22 The feedback provided contains the solution to the problem.

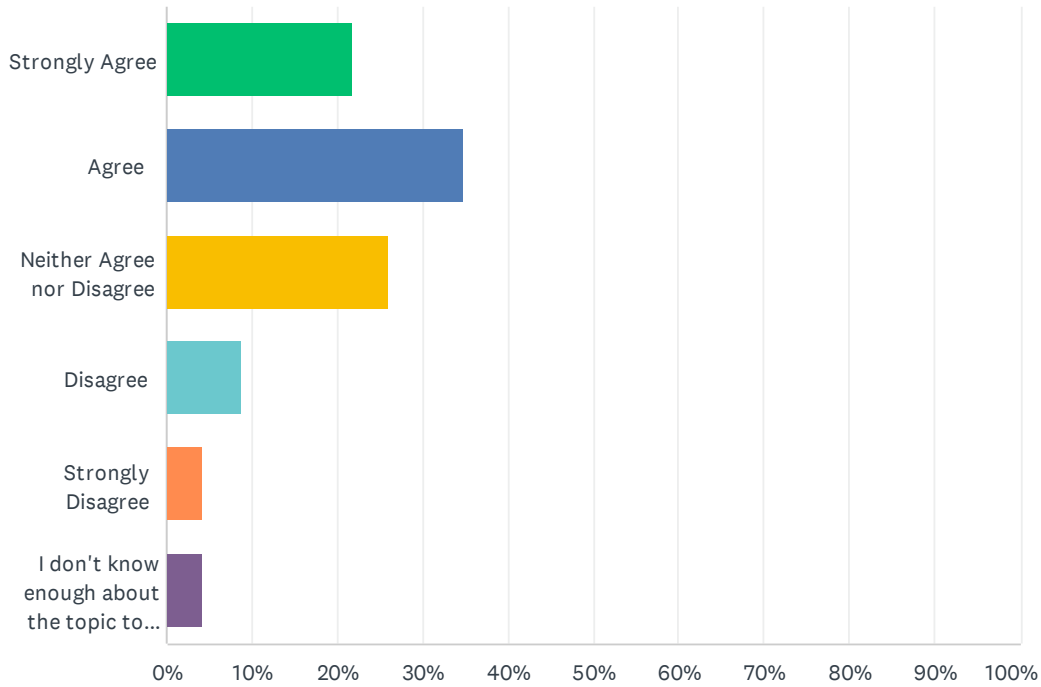
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	30.43%	7
Agree	43.48%	10
Neither Agree nor Disagree	17.39%	4
Disagree	4.35%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q23 The feedback provided contains relevant information to advance towards the solution.

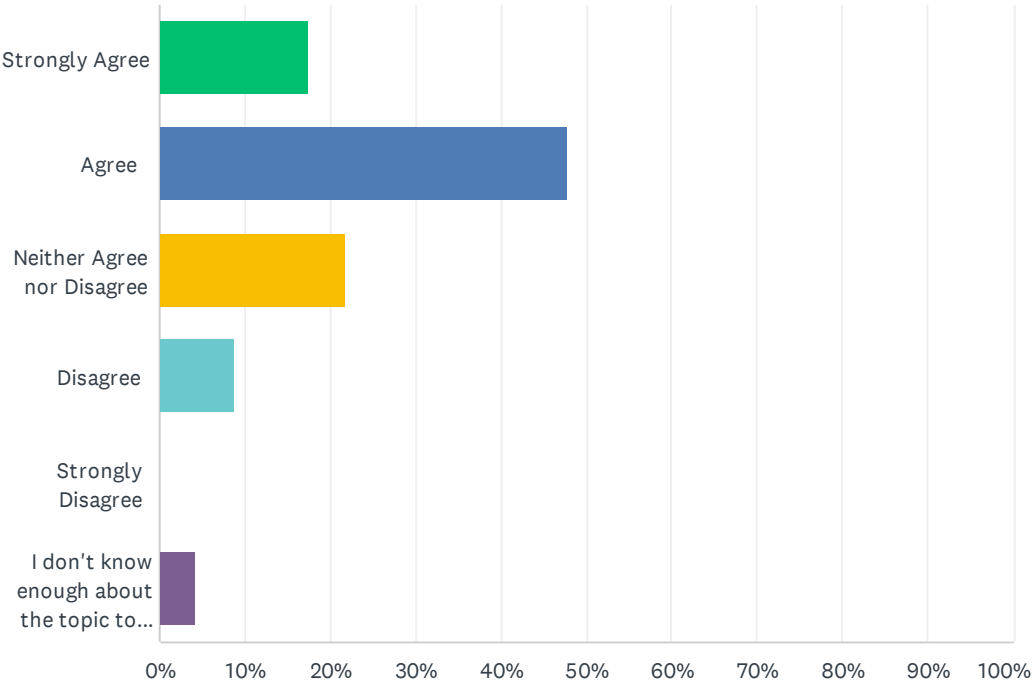
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	21.74%	5
Agree	34.78%	8
Neither Agree nor Disagree	26.09%	6
Disagree	8.70%	2
Strongly Disagree	4.35%	1
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q24 The feedback provided contains irrelevant information for solving the problem.

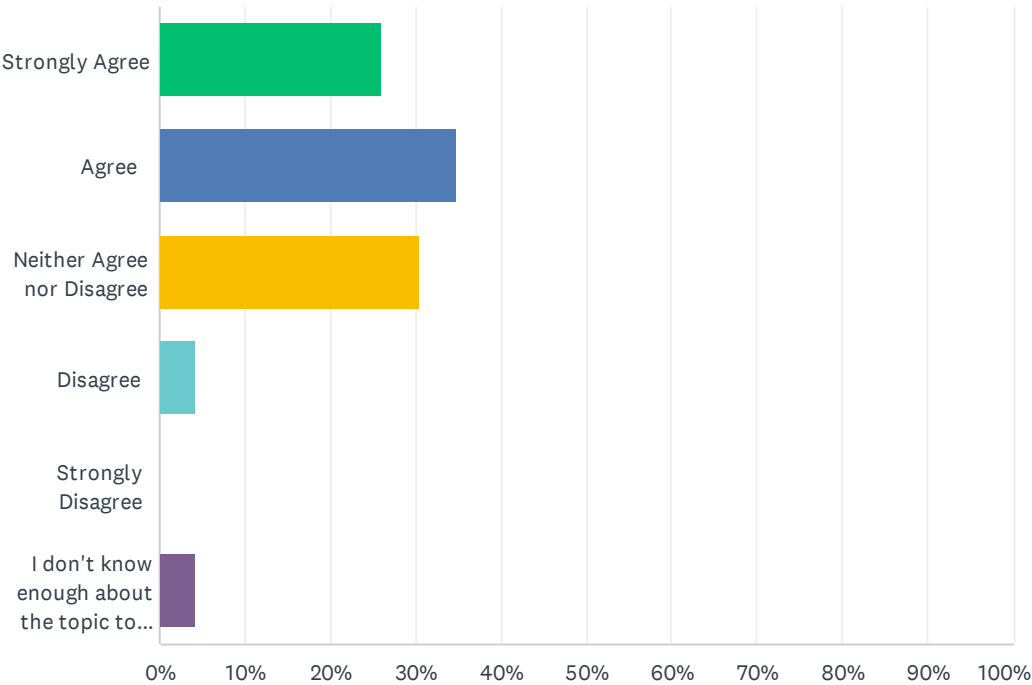
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	17.39%	4
Agree	47.83%	11
Neither Agree nor Disagree	21.74%	5
Disagree	8.70%	2
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q25 The feedback provided contains the solution to the problem.

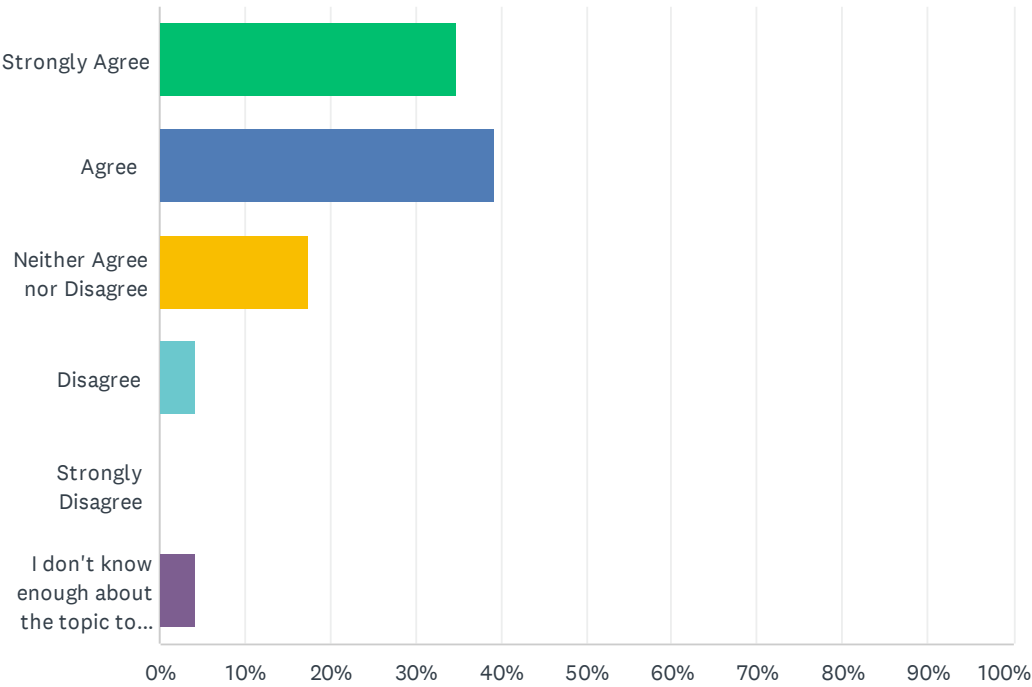
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	26.09%	6
Agree	34.78%	8
Neither Agree nor Disagree	30.43%	7
Disagree	4.35%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q26 The feedback provided contains relevant information to advance towards the solution.

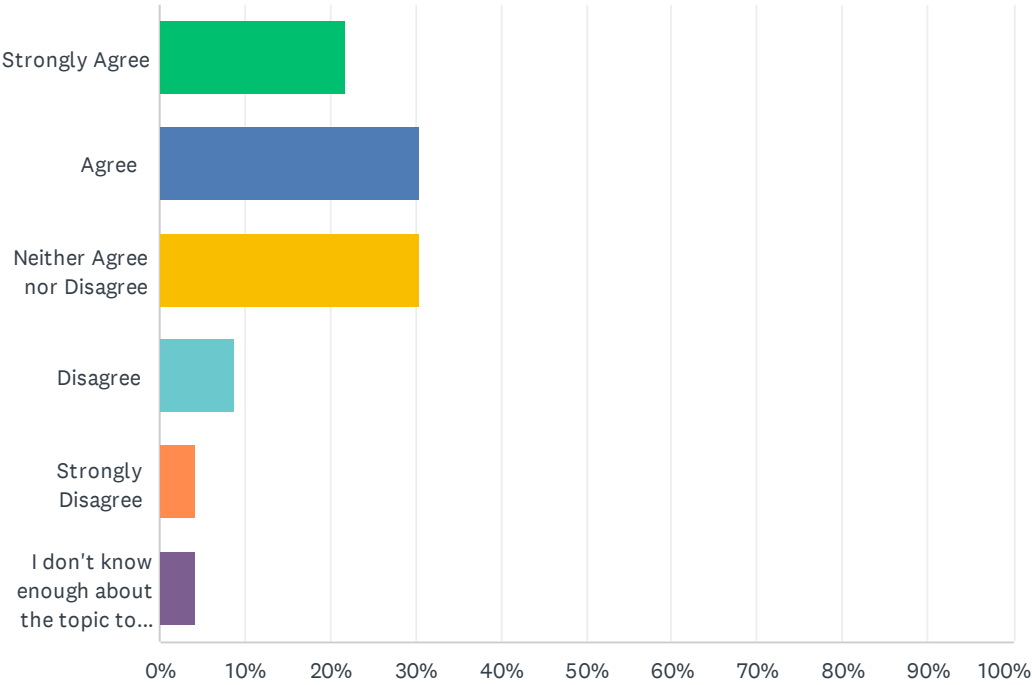
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	34.78%	8
Agree	39.13%	9
Neither Agree nor Disagree	17.39%	4
Disagree	4.35%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q27 The feedback provided contains irrelevant information for solving the problem.

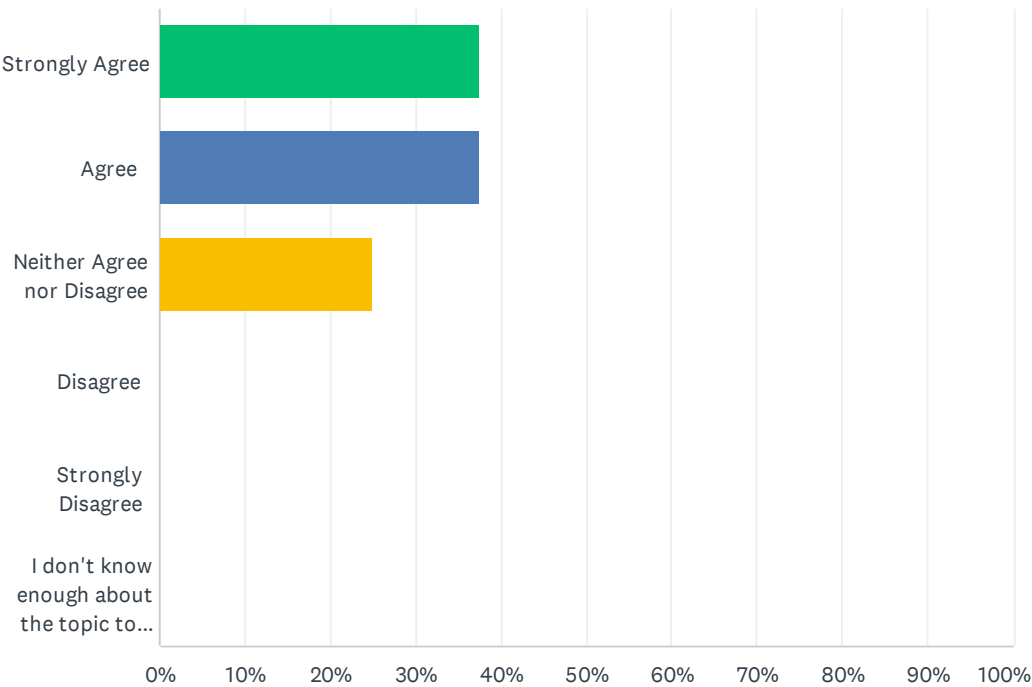
Answered: 23 Skipped: 216



ANSWER CHOICES	RESPONSES	
Strongly Agree	21.74%	5
Agree	30.43%	7
Neither Agree nor Disagree	30.43%	7
Disagree	8.70%	2
Strongly Disagree	4.35%	1
I don't know enough about the topic to assess	4.35%	1
TOTAL		23

Q28 The feedback provided contains the solution to the problem.

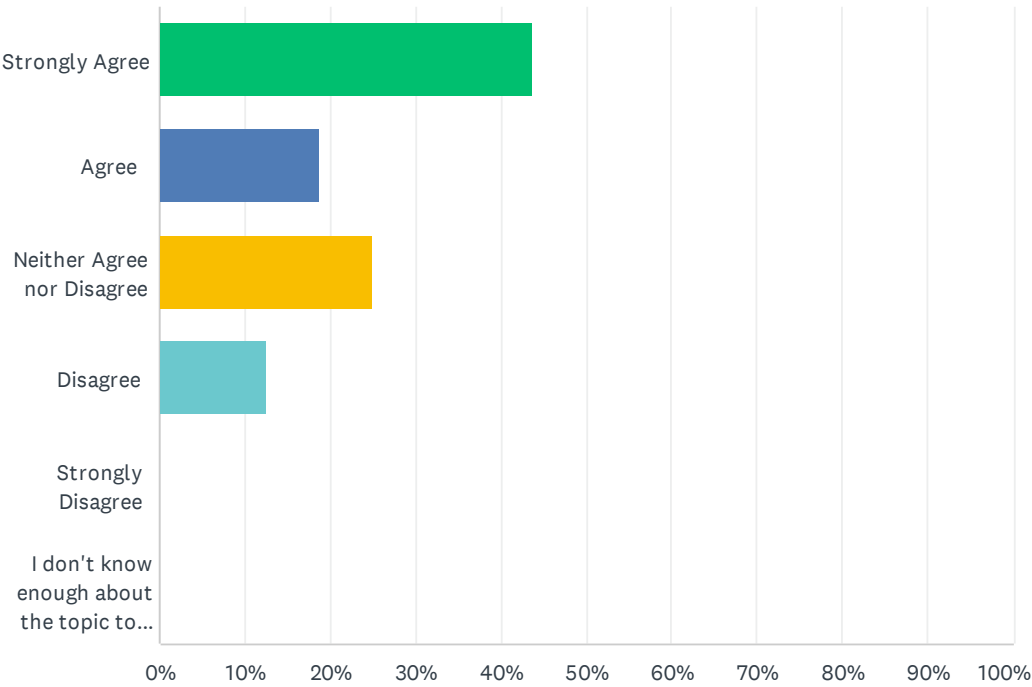
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	37.50%	6
Agree	37.50%	6
Neither Agree nor Disagree	25.00%	4
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q29 The feedback provided contains relevant information to advance towards the solution.

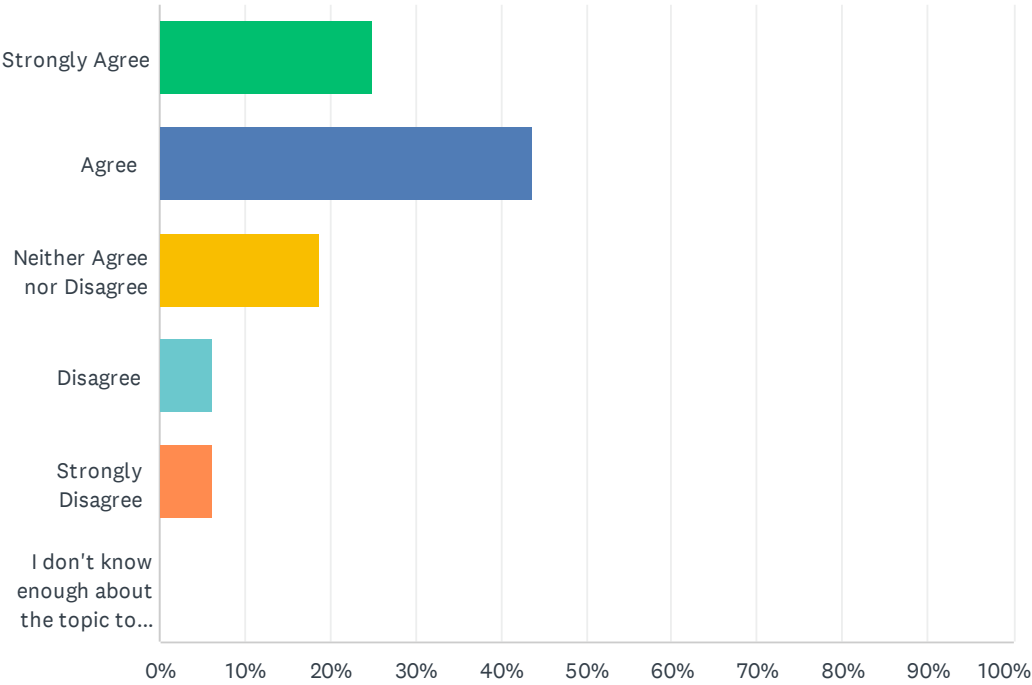
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	43.75%	7
Agree	18.75%	3
Neither Agree nor Disagree	25.00%	4
Disagree	12.50%	2
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q30 The feedback provided contains irrelevant information for solving the problem.

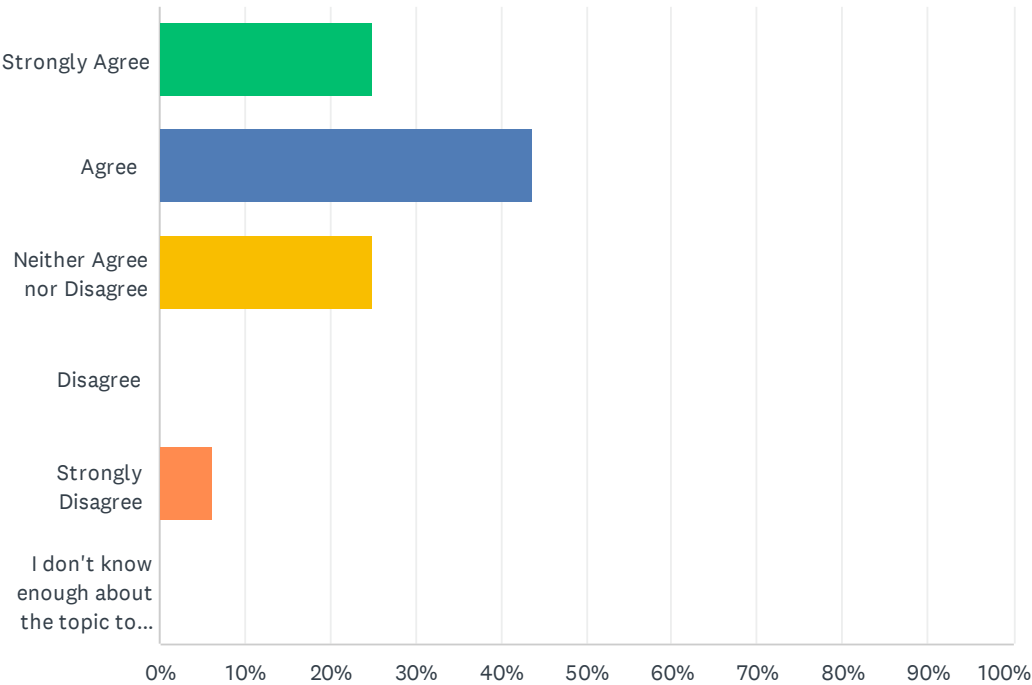
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	25.00%	4
Agree	43.75%	7
Neither Agree nor Disagree	18.75%	3
Disagree	6.25%	1
Strongly Disagree	6.25%	1
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q31 The feedback provided contains the solution to the problem.

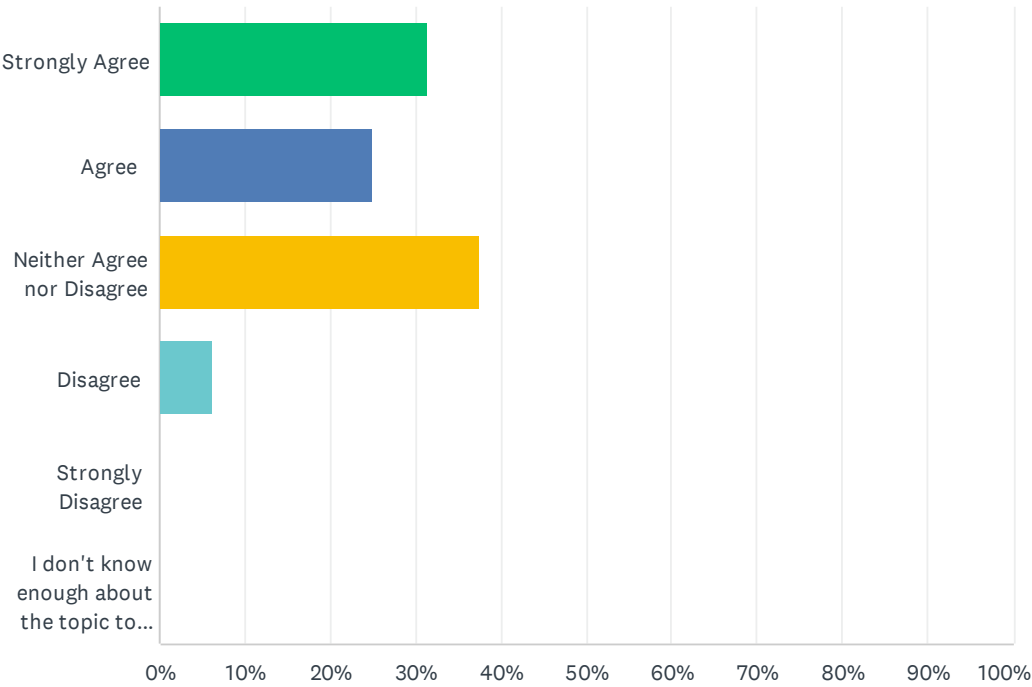
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	25.00%	4
Agree	43.75%	7
Neither Agree nor Disagree	25.00%	4
Disagree	0.00%	0
Strongly Disagree	6.25%	1
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q32 The feedback provided contains relevant information to advance towards the solution.

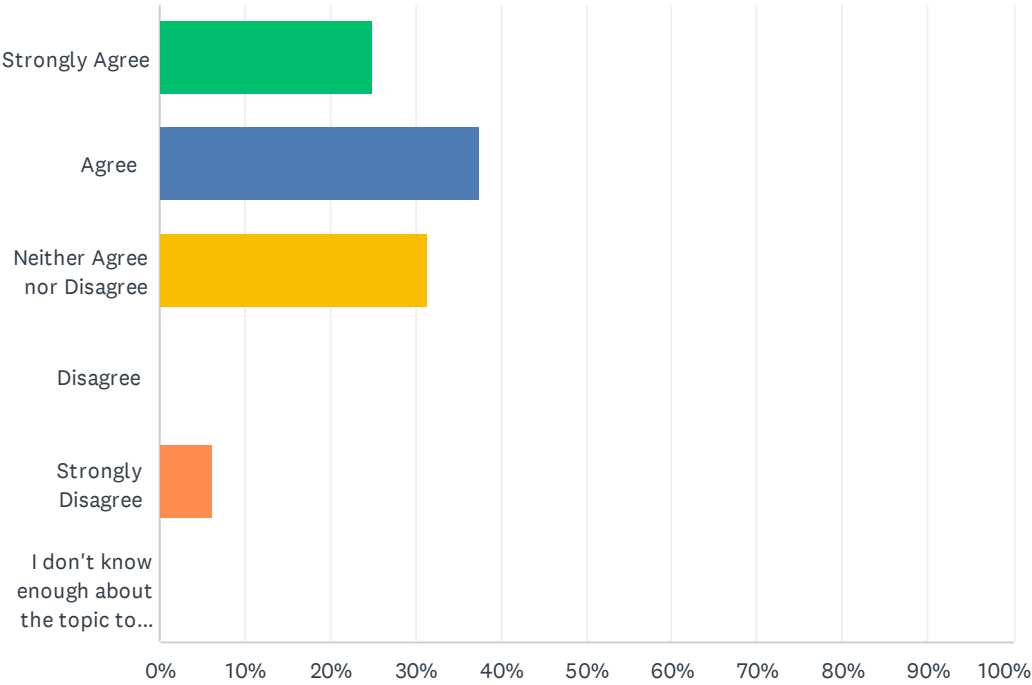
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	31.25%	5
Agree	25.00%	4
Neither Agree nor Disagree	37.50%	6
Disagree	6.25%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q33 The feedback provided contains irrelevant information for solving the problem.

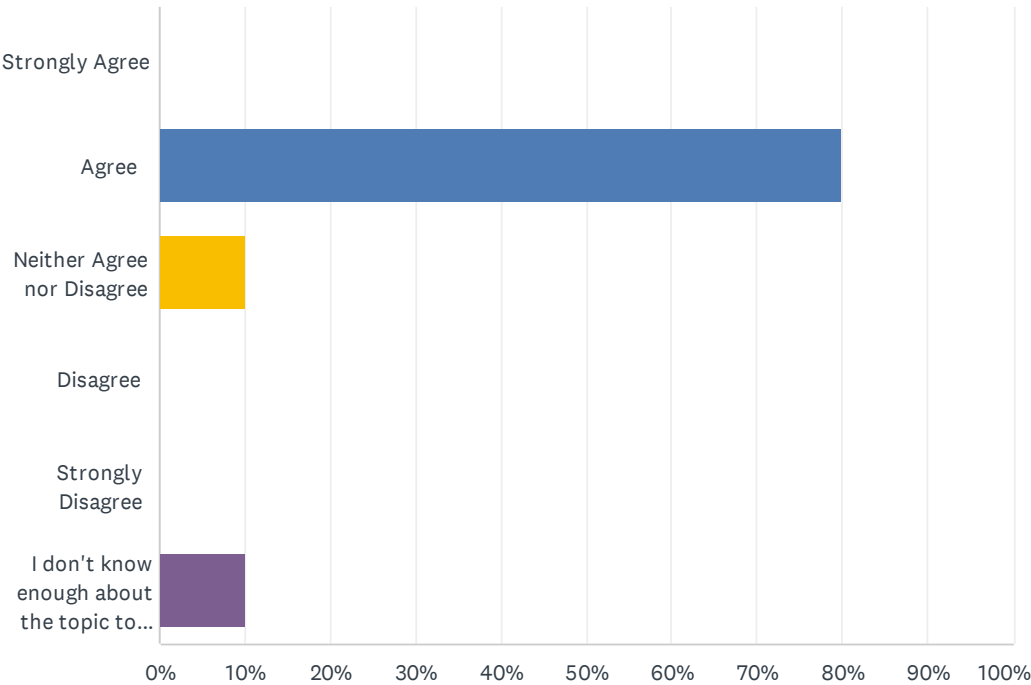
Answered: 16 Skipped: 223



ANSWER CHOICES	RESPONSES	
Strongly Agree	25.00%	4
Agree	37.50%	6
Neither Agree nor Disagree	31.25%	5
Disagree	0.00%	0
Strongly Disagree	6.25%	1
I don't know enough about the topic to assess	0.00%	0
TOTAL		16

Q34 The feedback provided contains the solution to the problem.

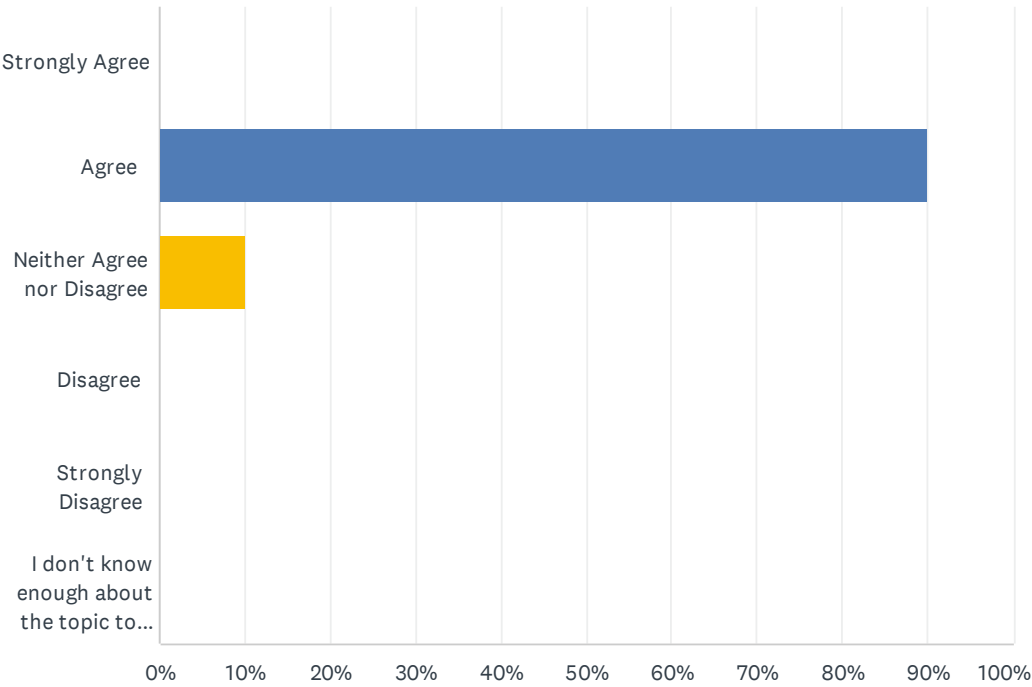
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	0.00%	0
Agree	80.00%	8
Neither Agree nor Disagree	10.00%	1
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	10.00%	1
TOTAL		10

Q35 The feedback provided contains relevant information to advance towards the solution.

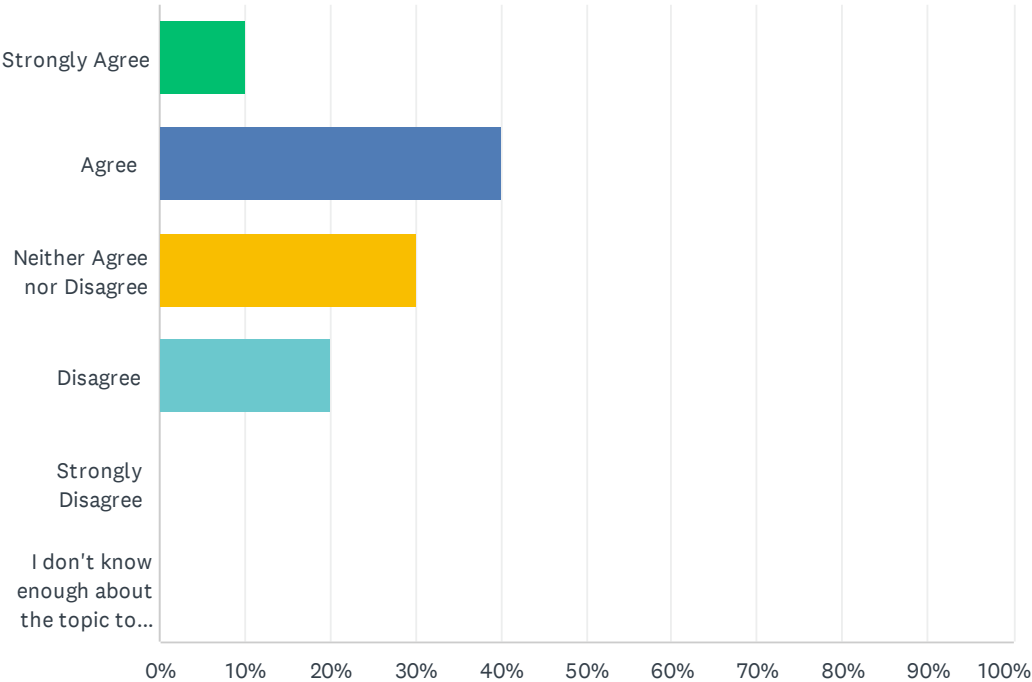
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	0.00%	0
Agree	90.00%	9
Neither Agree nor Disagree	10.00%	1
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		10

Q36 The feedback provided contains irrelevant information for solving the problem.

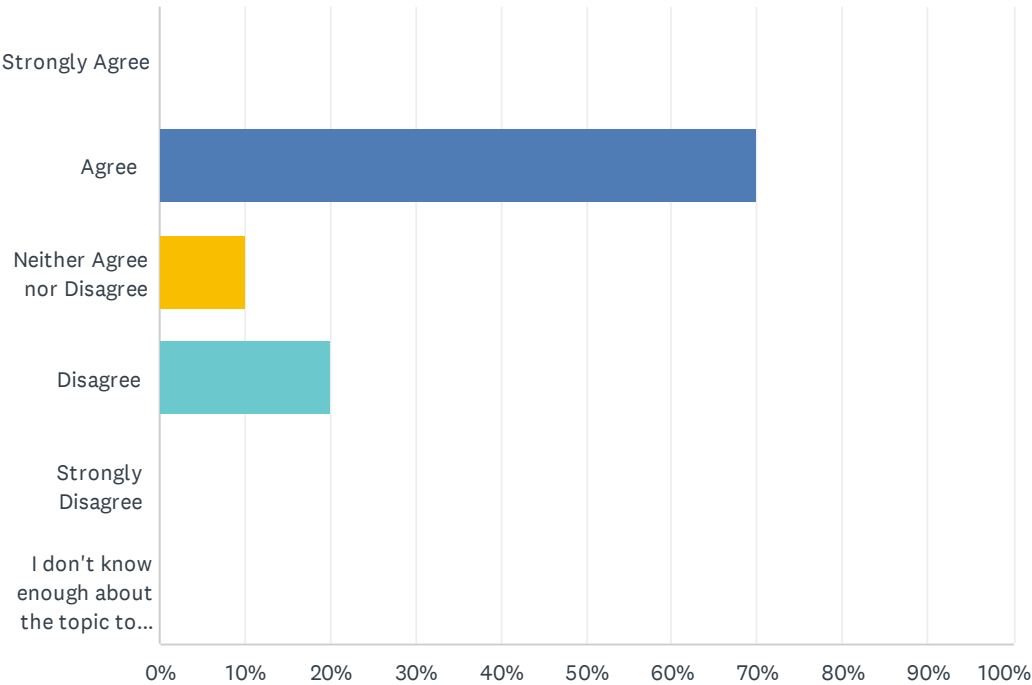
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	10.00%	1
Agree	40.00%	4
Neither Agree nor Disagree	30.00%	3
Disagree	20.00%	2
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		10

Q37 The feedback provided contains the solution to the problem.

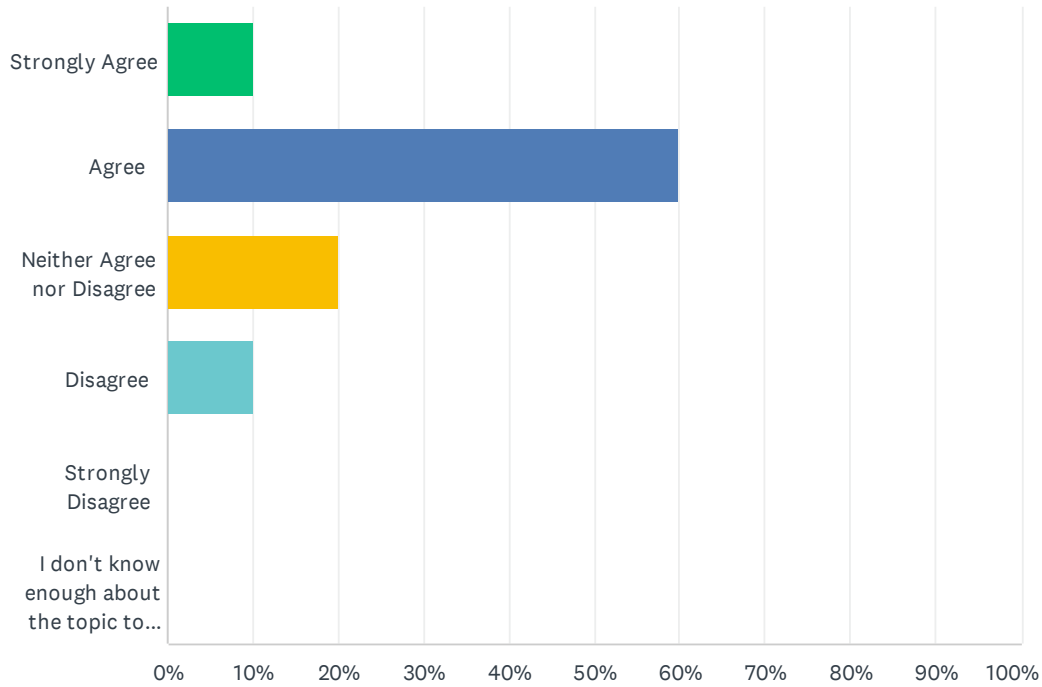
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	0.00%	0
Agree	70.00%	7
Neither Agree nor Disagree	10.00%	1
Disagree	20.00%	2
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		10

Q38 The feedback provided contains relevant information to advance towards the solution.

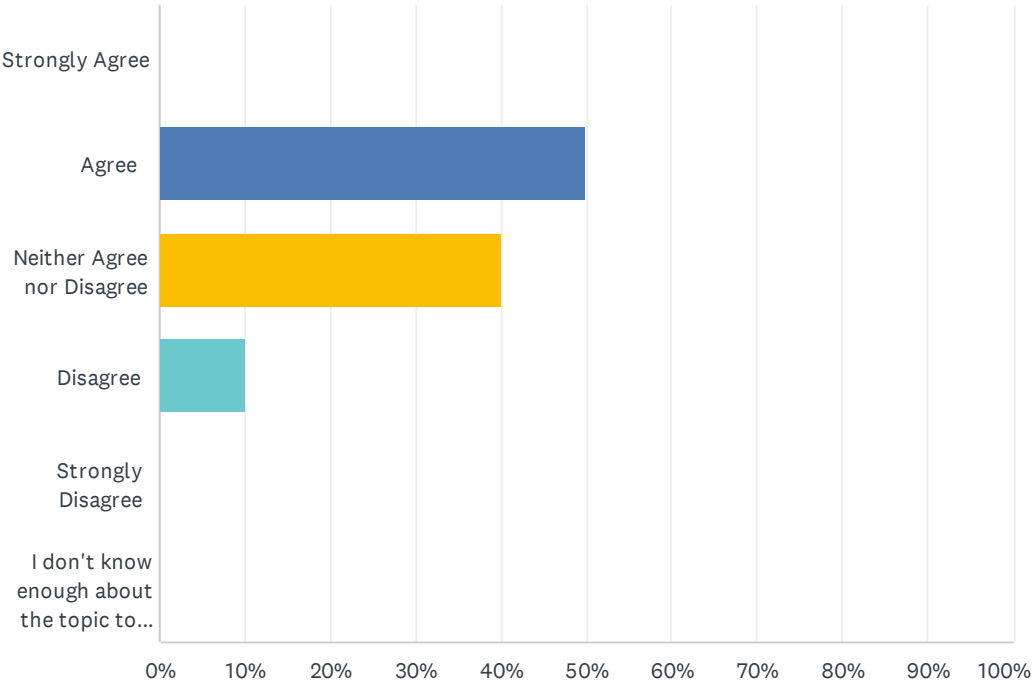
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	10.00%	1
Agree	60.00%	6
Neither Agree nor Disagree	20.00%	2
Disagree	10.00%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		10

Q39 The feedback provided contains irrelevant information for solving the problem.

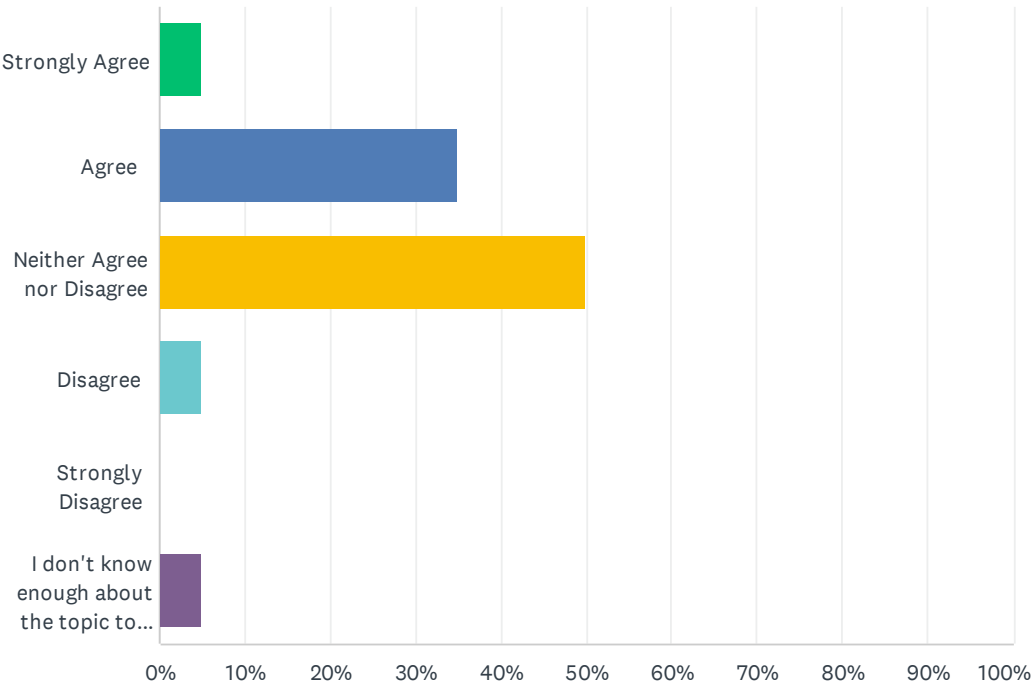
Answered: 10 Skipped: 229



ANSWER CHOICES	RESPONSES	
Strongly Agree	0.00%	0
Agree	50.00%	5
Neither Agree nor Disagree	40.00%	4
Disagree	10.00%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	0.00%	0
TOTAL		10

Q40 The feedback provided contains the solution to the problem.

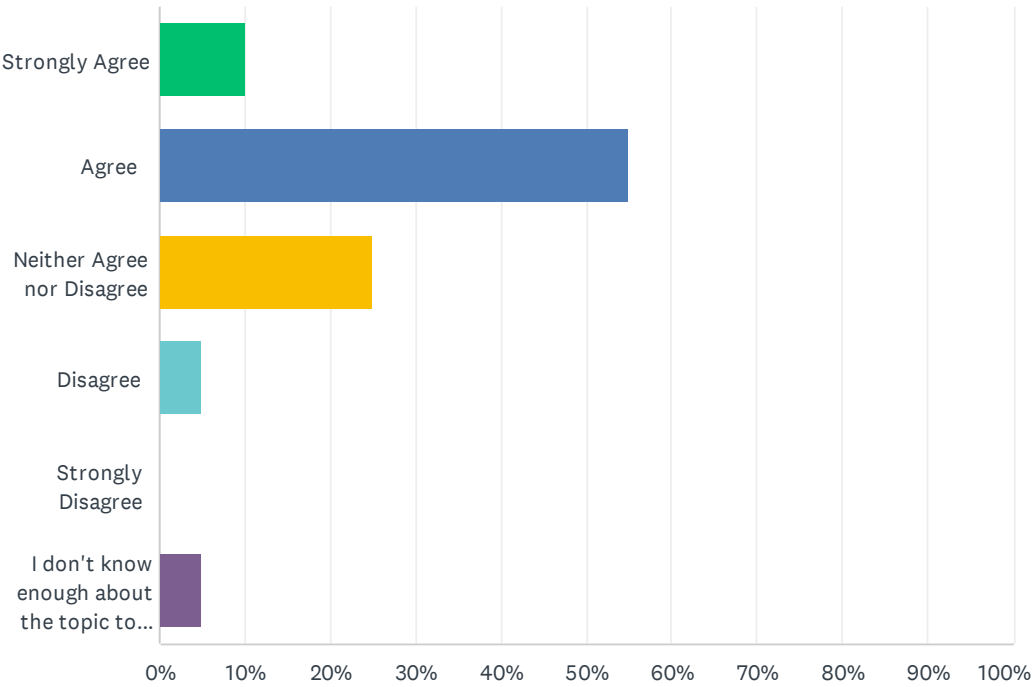
Answered: 20 Skipped: 219



ANSWER CHOICES	RESPONSES	
Strongly Agree	5.00%	1
Agree	35.00%	7
Neither Agree nor Disagree	50.00%	10
Disagree	5.00%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	5.00%	1
TOTAL		20

Q41 The feedback provided contains relevant information to advance towards the solution.

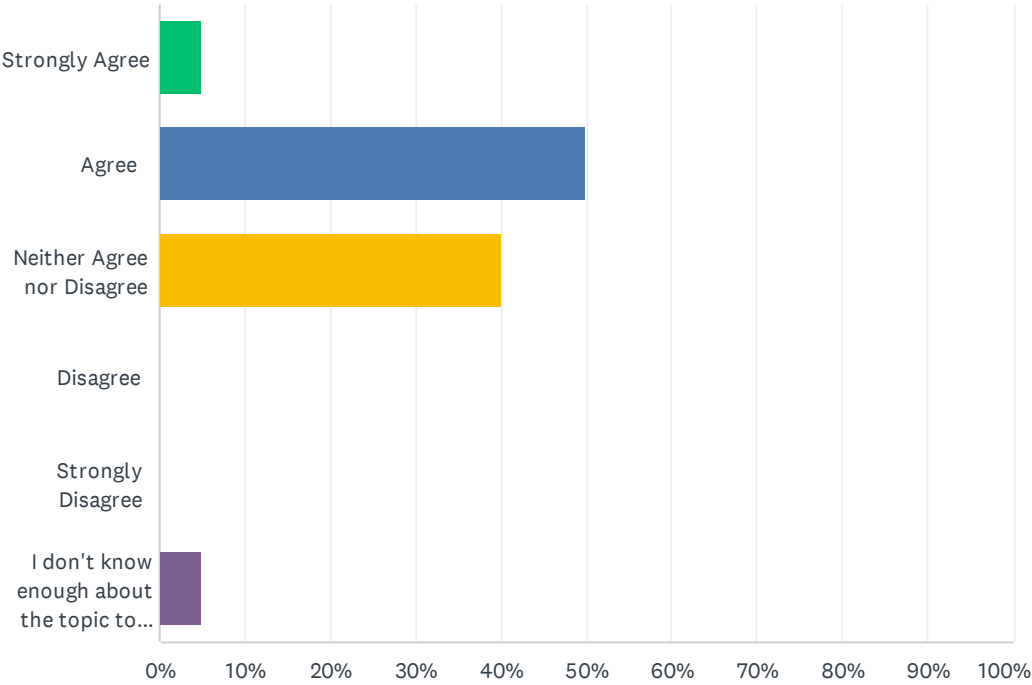
Answered: 20 Skipped: 219



ANSWER CHOICES	RESPONSES	
Strongly Agree	10.00%	2
Agree	55.00%	11
Neither Agree nor Disagree	25.00%	5
Disagree	5.00%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	5.00%	1
TOTAL		20

Q42 The feedback provided contains irrelevant information for solving the problem.

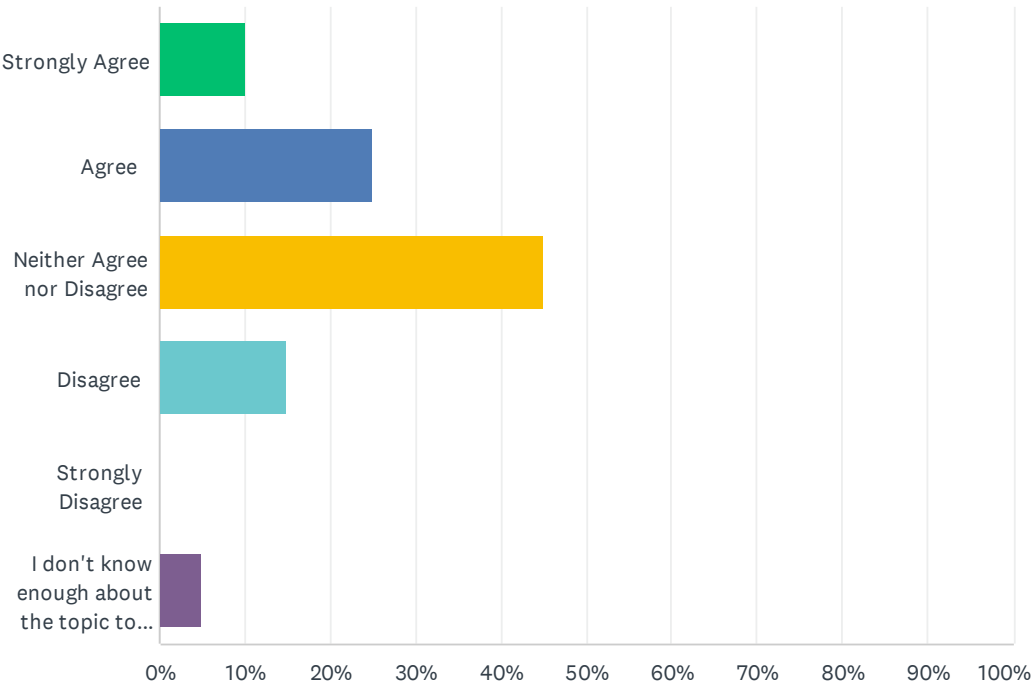
Answered: 20 Skipped: 219



ANSWER CHOICES	RESPONSES	
Strongly Agree	5.00%	1
Agree	50.00%	10
Neither Agree nor Disagree	40.00%	8
Disagree	0.00%	0
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	5.00%	1
TOTAL		20

Q43 The feedback provided contains the solution to the problem.

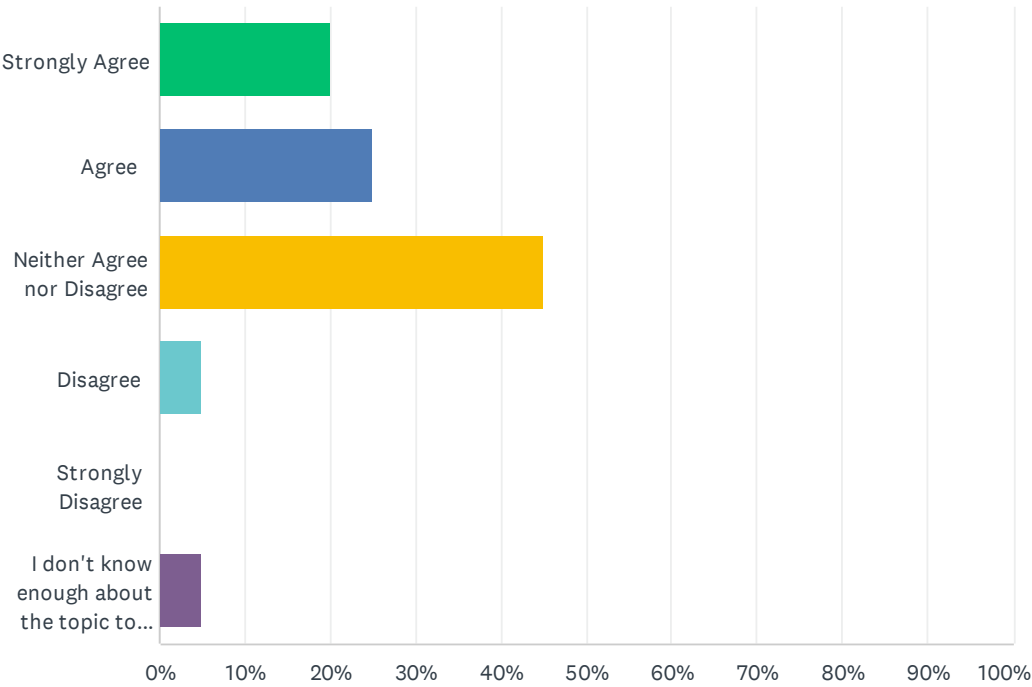
Answered: 20 Skipped: 219



ANSWER CHOICES	RESPONSES	
Strongly Agree	10.00%	2
Agree	25.00%	5
Neither Agree nor Disagree	45.00%	9
Disagree	15.00%	3
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	5.00%	1
TOTAL		20

Q44 The feedback provided contains relevant information to advance towards the solution.

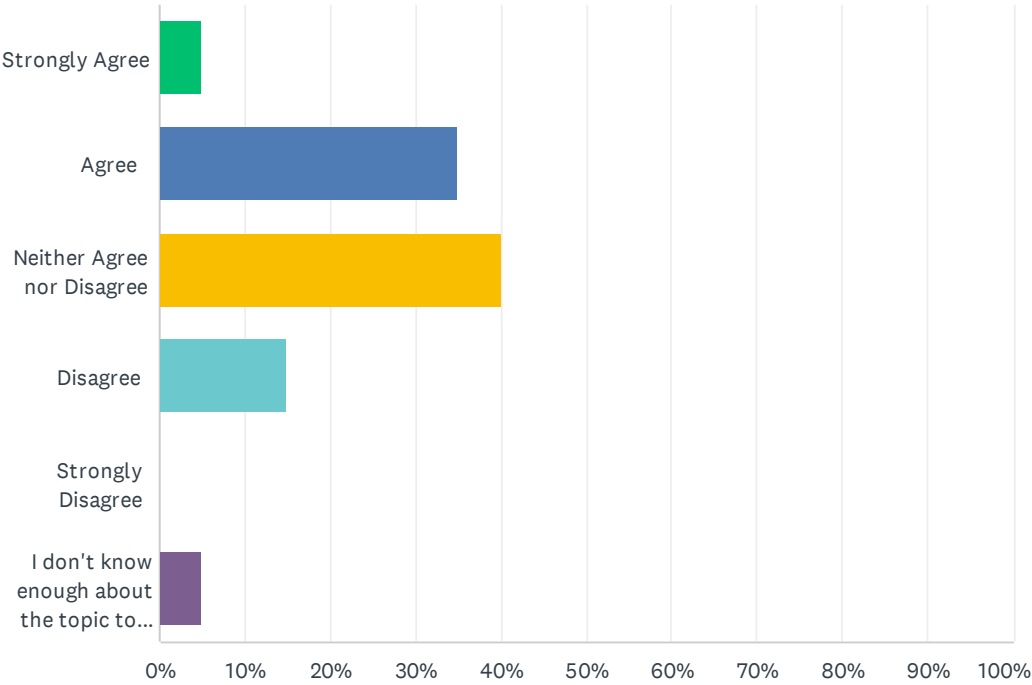
Answered: 20 Skipped: 219



ANSWER CHOICES	RESPONSES	
Strongly Agree	20.00%	4
Agree	25.00%	5
Neither Agree nor Disagree	45.00%	9
Disagree	5.00%	1
Strongly Disagree	0.00%	0
I don't know enough about the topic to assess	5.00%	1
TOTAL		20

Q45 The feedback provided contains irrelevant information for solving the problem.

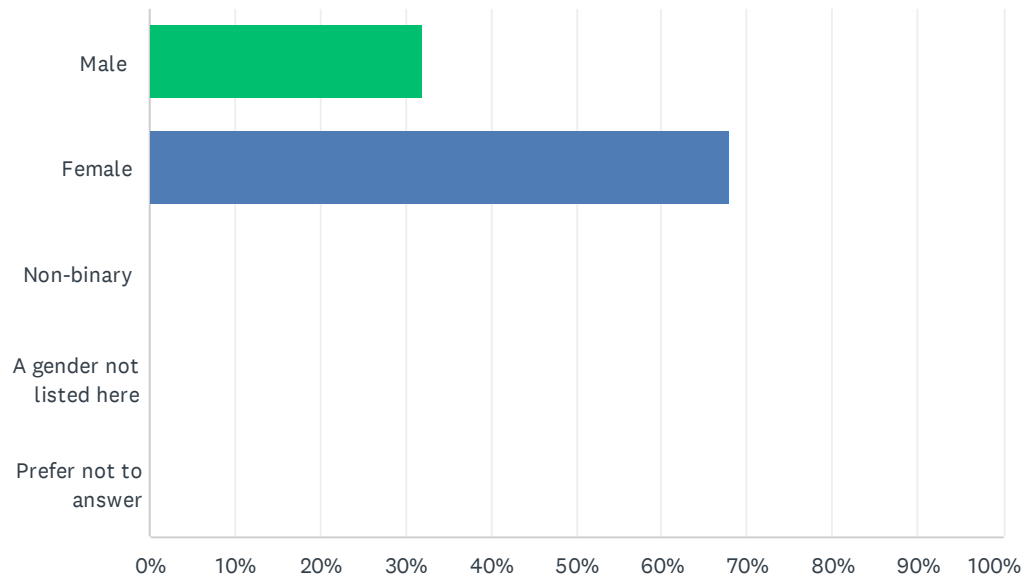
Answered: 20 Skipped: 219



ANSWER CHOICES		RESPONSES	
Strongly Agree		5.00%	1
Agree		35.00%	7
Neither Agree nor Disagree		40.00%	8
Disagree		15.00%	3
Strongly Disagree		0.00%	0
I don't know enough about the topic to assess		5.00%	1
TOTAL			20

Q1 Gender

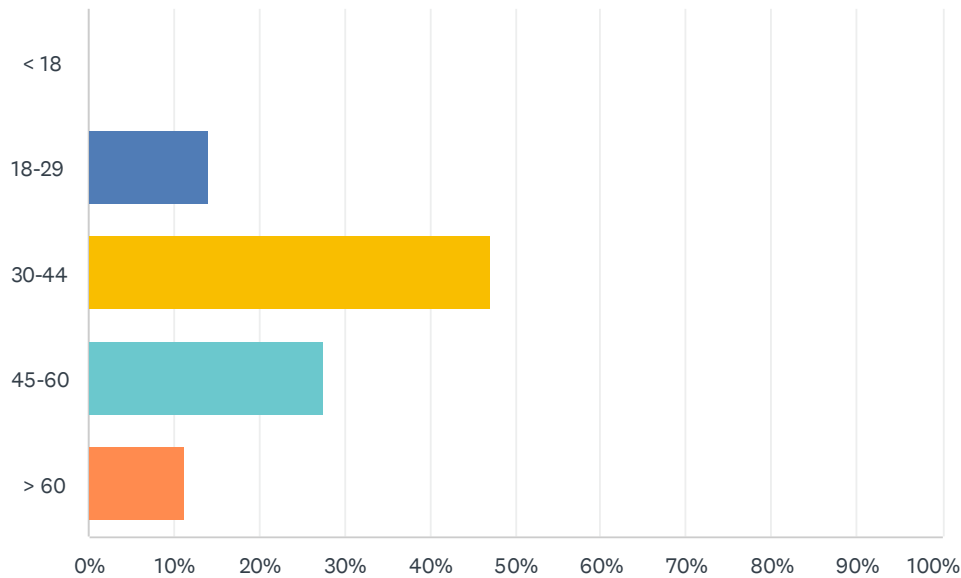
Answered: 229 Skipped: 10



ANSWER CHOICES	RESPONSES	
Male	31.88%	73
Female	68.12%	156
Non-binary	0.00%	0
A gender not listed here	0.00%	0
Prefer not to answer	0.00%	0
TOTAL		229

Q2 Age

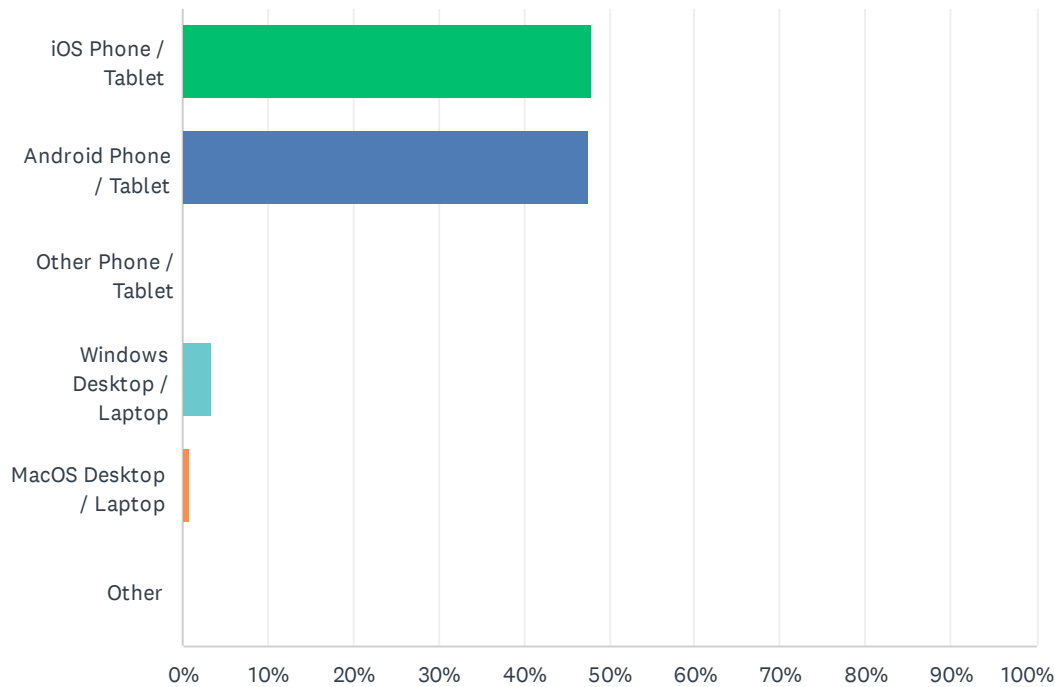
Answered: 229 Skipped: 10



ANSWER CHOICES		RESPONSES	
< 18		0.00%	0
18-29		13.97%	32
30-44		47.16%	108
45-60		27.51%	63
> 60		11.35%	26
TOTAL			229

Q3 Device Type

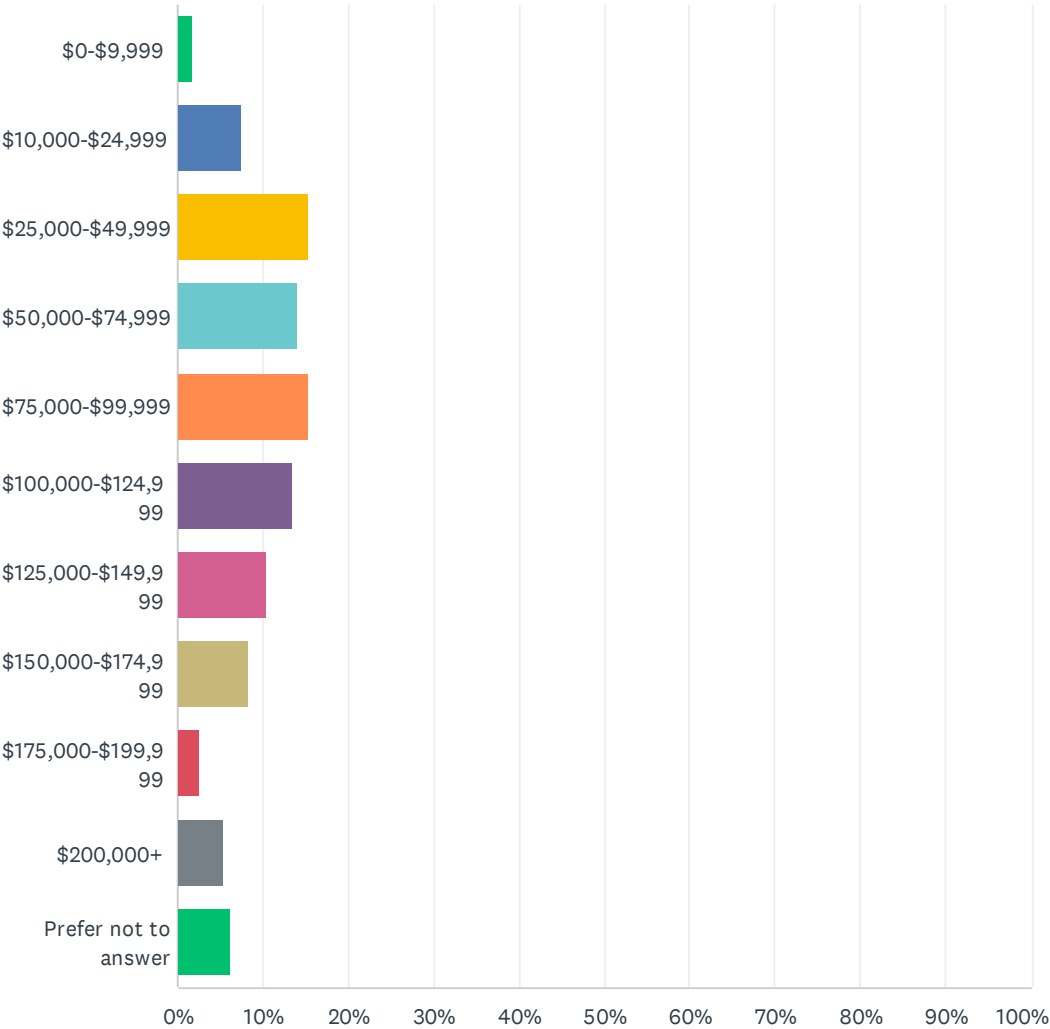
Answered: 229 Skipped: 10



ANSWER CHOICES	RESPONSES	
iOS Phone / Tablet	48.03%	110
Android Phone / Tablet	47.60%	109
Other Phone / Tablet	0.00%	0
Windows Desktop / Laptop	3.49%	8
MacOS Desktop / Laptop	0.87%	2
Other	0.00%	0
TOTAL		229

Q4 Household Income

Answered: 229 Skipped: 10

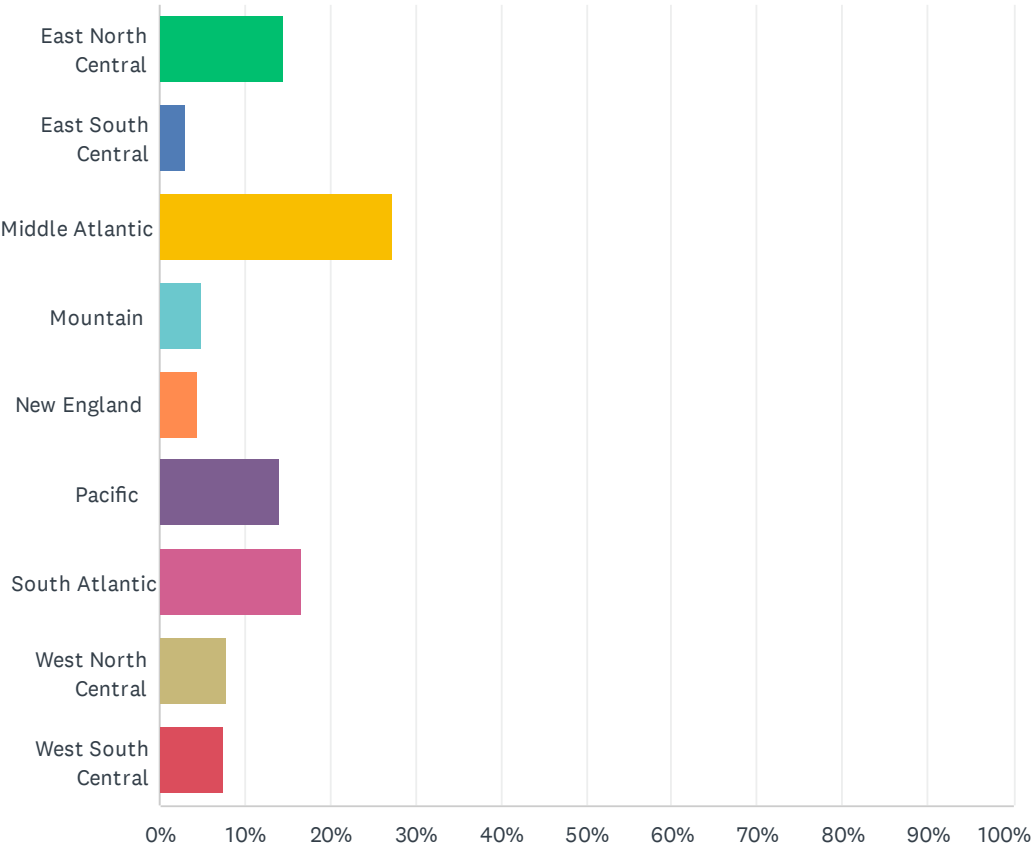


Automatic Feedback using Large Language Models

ANSWER CHOICES	RESPONSES	
\$0-\$9,999	1.75%	4
\$10,000-\$24,999	7.42%	17
\$25,000-\$49,999	15.28%	35
\$50,000-\$74,999	13.97%	32
\$75,000-\$99,999	15.28%	35
\$100,000-\$124,999	13.54%	31
\$125,000-\$149,999	10.48%	24
\$150,000-\$174,999	8.30%	19
\$175,000-\$199,999	2.62%	6
\$200,000+	5.24%	12
Prefer not to answer	6.11%	14
TOTAL		229

Q5 Major US Region

Answered: 228 Skipped: 11



ANSWER CHOICES	RESPONSES	
East North Central	14.47%	33
East South Central	3.07%	7
Middle Atlantic	27.19%	62
Mountain	4.82%	11
New England	4.39%	10
Pacific	14.04%	32
South Atlantic	16.67%	38
West North Central	7.89%	18
West South Central	7.46%	17
TOTAL		228