

Math CLASS Survey -- Westfield State University and Rockhurst University

Here are a number of statements that may or may not describe your beliefs about learning mathematics. You are asked to rate each statement by selecting a number between 1 and 5 where the numbers mean the following:

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree

Choose one of the above five choices that best expresses your feeling about the statement. If you don't understand a statement, leave it blank. If you have no strong opinion, choose 3.

1. A significant aspect of learning mathematics is memorizing all the information I need to know.
2. When I am solving a mathematics problem, I try to decide what would be a reasonable answer.
3. I think about the mathematics I experience in everyday life.
4. Doing lots and lots of similar problems is an effective way for me to learn mathematics.
5. After I study a topic in mathematics and feel that I understand it, I have difficulty solving problems on the same topic.
6. Knowledge in mathematics consists of many disconnected topics.
7. When I solve a mathematics problem, I locate an equation that uses the variables given in the problem and plug in the values.
8. I find that reading the text in detail helps me learn mathematics.
9. There is usually only one correct approach to solving a mathematics problem.
10. I am not satisfied until I understand why something works the way it does.
11. I can only learn mathematics if the teacher explains things well in class.
12. I do not expect mathematics equations to help my understanding of the ideas; they are just for doing calculations.
13. I study mathematics to learn knowledge that will be useful in my life outside of school.
14. If I get stuck on a mathematics problem on my first try, I usually try to figure out a different way that works.
15. Nearly everyone is capable of understanding mathematics if they work at it.
16. Understanding mathematics basically means being able to recall something you've read or been shown.
17. There could be two different correct values for the answer to a mathematics problem.
18. To understand mathematics I discuss it with friends and other students.
19. I do not spend more than five minutes stuck on a mathematics problem before giving up or seeking help from someone else.
20. If I don't remember a particular equation needed to solve a problem on an exam, there's nothing much I can do (legally!) to come up with it.
21. If I want to apply a method used for solving one mathematics problem to another problem, the problems must involve very similar situations.
22. In doing a mathematics problem, if my calculation gives a result very different from what I'd expect, I'd trust the calculation rather than going back through the problem.

23. In mathematics, it is important for me to make sense out of formulas before I can use them correctly.
24. I enjoy solving mathematics problems.
25. Learning mathematics changes my ideas about how the world works.
26. To learn mathematics, I only need to memorize solutions to sample problems.
27. Reasoning skills used to understand mathematics can be helpful to me in my everyday life.
28. We use this statement to discard the survey of people who are not reading the questions. Please select agree-option 4 (not strongly agree) for this question to preserve your answers.
29. Spending a lot of time understanding where formulas come from is a waste of time.
30. I think that mathematics can be beautiful (in the sense that art or music can be beautiful).
31. I find carefully analyzing problems in detail helps me learn mathematics.
32. I can usually figure out a way to solve mathematics problems.
33. The subject of mathematics has little relation to what I experience in the real world.
34. There are times I solve a mathematics problem more than one way to help my understanding.
35. It is possible to explain mathematics ideas without mathematical formulas.
36. When I solve a mathematics problem, I explicitly think about which mathematical ideas apply to the problem.
37. If I get stuck on a mathematics problem, there is no chance I'll figure it out on my own.
38. When studying mathematics, I relate the important information to what I already know rather than just memorizing it the way it is presented.