

Ethics & Responsibilities of Community Membership

In the homework due today how many ethical issues (mentioned directly or indirectly) did you find in the readings?

- a) over 20
- b) $15 < \text{ethical issues} \leq 20$
- c) $10 < \text{ethical issues} \leq 15$
- d) $5 < \text{ethical issues} \leq 10$
- e) other or did not complete

In the homework due today, what professional association did you research?

- a) American Mathematical Society (AMS)
- b) Mathematical Association of America (MAA)
- c) Society for Industrial and Applied Mathematics (SIAM)
- d) National Council of Teachers of Mathematics (NCTM)
- e) other association or did not complete

Is it appropriate for scientists and mathematicians today to use data obtained under what we agree were morally reprehensible conditions, like in Nazi Germany or the Tuskegee (Alabama) syphilis experiments?

- a) yes and I feel strongly
- b) yes I somewhat feel that they should be allowed to use it
- c) only in in certain circumstances
- d) no I somewhat feel that they should not be allowed to use it
- e) no and I feel strongly

Should mathematicians be held responsible for any future unanticipated uses of their work such as computer viruses or code-breaking algorithms usurped by data thieves?

- a) definitely yes
- b) somewhat yes
- c) somewhat no
- d) definitely no

Changing Data

Jane is making electrical measurements in a physics laboratory. She is a good student and is confident that she has set up the circuit properly. When she tries to do the required calculations to verify the formulas in her physics book she finds that the data she took appears to be incorrect. She suspects that one of the electrical components she was given is not working properly. Her teacher, Mr. Grim, is busy helping some of the weaker students so Jane decides not to report the problem. Instead she does the mathematical calculations to determine what a correct set of data would be and simply changes the data to match the calculations.

- a) I feel strongly that Jane's actions are ok
- b) I somewhat feel that Jane's actions are ok
- c) I somewhat feel that Jane's actions are problematic
- d) I feel strongly that Jane's actions are problematic

Loaning Data

Pete, Brooke and Lisa are laboratory partners in their chemistry class. Yesterday Lisa was absent. This required Pete and Brooke to work very diligently to complete the experiment during the lab period so they could hand in the report in class today. Today Lisa has returned to school after being ill. She meets her lab partners on the way into school in the morning and asks them for the data from yesterday's experiment so she can write it up during study period and hand it in. Pete is willing to give Lisa the data, but Brooke objects.

- a) I feel strongly that they should give Lisa the data
- b) I somewhat feel that they should give Lisa the data
- c) I somewhat feel that they should not give Lisa the data
- d) I feel strongly that they should not give Lisa the data

Cheating. The use of fraud or deceit to gain an advantage in academic endeavors, regardless of delivery methods (e.g., face-to-face, online, or via distance education). Examples of cheating include, but are not limited to, fraud, deception, impermissible communication of information, copying, falsifying data, unauthorized use or possession of study aids, memoranda, books, data, or other information, for the purpose of unfairly manipulating academic materials.

Plagiarism. Presenting the words or ideas of another as one's own work or ideas. All directly quoted material must be properly cited. Plagiarism includes, but is not limited to, borrowing, downloading, cutting and pasting, and paraphrasing without acknowledgement, including from online sources, or allowing an individual's academic work to be submitted as another's work.

Unauthorized Assistance. Giving or receiving assistance not specifically permitted by an instructor.