

# Assessment Survey

## (Post Graduate)

## Responses

I. Please assess how well prepared you are now to do the following:

1. Translate a real world situation into mathematical symbology:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	1	1	7	4

2. Interpret mathematical conclusions in terms of real world situation described by the mathematics:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	3	6	4

3. Evaluate the reasonableness of the mathematical results obtained:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	1	7	5

4. Identify an effective computational method for solving a mathematical problem:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	1	8	4

5. Implement the chosen computational method correctly when solving a mathematical problem:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	1	7	5

6. Use a correct method to check the accuracy of the computational results:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	3	5	5

7. Determine the validity and rigor of a given mathematical argument, e.g., a proof:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	4	6	3

8. Develop a valid and rigorous argument from given assumptions and definitions:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	3	8	2

9. Present your calculations and arguments clearly:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	2	4	7

10. Present your calculations and arguments in detail:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	1	7	5

II. Now please assess the importance of each of the following to your personal goals since you completed a mathematics major at ISU.

1. Translate a real world situation into mathematical symbology:

1 (little importance)	2	3	4	5 (very important)
0	1	2	3	7

2. Interpret mathematical conclusions in terms of real world situation described by the mathematics:

1 (little importance)	2	3	4	5 (very important)
0	0	5	0	8

3. Evaluate the reasonableness of the mathematical results obtained:

1 (little importance)	2	3	4	5 (very important)
0	0	4	1	8

4. Identify an effective computational method for solving a mathematical problem:

1 (little importance)	2	3	4	5 (very important)
0	1	3	2	7

5. Implement the chosen computational method correctly when solving a mathematical problem:

1 (little importance)	2	3	4	5 (very important)
0	1	2	0	10

6. Use a correct method to check the accuracy of the computational results:

1 (little importance)	2	3	4	5 (very important)
0	0	4	2	7

7. Determine the validity and rigor of a given mathematical argument, e.g., a proof:

1 (little importance)	2	3	4	5 (very important)
1	2	5	2	3

Comment: My work is engineering and manufacturing. Proof has been established. (3).

8. Develop a valid and rigorous argument from given assumptions and definitions:

1 (little importance)	2	3	4	5 (very important)
0	3	2	2	6

Comment: Management has rarely evaluated my written work. (3)

9. Present your calculations and arguments clearly:

1 (little importance)	2	3	4	5 (very important)
0	0	3	3	7

10. Present your calculations and arguments in detail:

1 (poorly prepared)	2	3	4	5 (very well prepared)
0	0	2	4	7