

Foundational Competencies: Quantitative Analysis

5/23/17

		Exceeded (5)	Met (3)	Not Met (1)
Find and pose precise questions that can be appropriately analyzed by quantitative methods	2A3	Identifies questions to be analyzed by more advanced quantitative methods; Identifies an appropriate and thorough quantitative methodology for analyzing the questions	Identifies questions to be analyzed by straightforward quantitative methods; Identifies an appropriate methodology for analyzing the questions	Identifies questions that cannot be analyzed by quantitative methods; Provides an incorrect quantitative methodology or fails to include a quantitative methodology for analyzing the questions
Think critically about quantitative statements	2B1	Includes evidence of advanced critical thinking, and all of the possible conclusions are presented and are reasonable and correct; all conclusions are discussed in the context of the problem without errors	Includes evidence of critical thinking, and most of the possible conclusions are presented and are reasonable and correct; most conclusions are discussed in proper context of the problem with, at most, only minor errors	Includes minimal or no evidence of critical thinking, but many conclusions reached are unreasonable and/or not correct; Fails to discuss conclusions in the context of the problem or discusses them with significant errors
Recognize sources of error	2B2	Correctly recognizes all possible sources of error, and uses the appropriate terminology without errors	Correctly recognizes most of the possible sources of error, and uses the appropriate terminology with at most, only minor errors	Correctly recognizes only a few sources of error, with incorrect or misused terminology
Represent data	2C2	Represents all data using appropriate and correctly executed techniques without errors or omissions	Represents most data using appropriate and correctly executed techniques, with, at most, only minor errors in execution or omissions	Represents only a few data using a mix of appropriate and misused or incorrectly used techniques and/or significant omissions are present
Draw inference from data	2D1b	All inferences drawn from data are appropriate and correct.	Any/most inferences drawn from data are appropriate and correct with, at most only minor errors.	Only a few, in any, inferences are drawn from data and/or includes those drawn using incorrect techniques.