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QUANTITATIVE REASONING TEST (QR)

The Quantitative Reasoning Test (QR) is a computerized, multiple-choice test developed by the JMU Center for Assessment and Research Studies (CARS) and faculty from science and mathematics domains. It is designed to assess the quantitative reasoning of students who have completed their general education requirements, and measures the following learning objectives:

1. Use graphical, symbolic, and numerical methods to analyze, organize, and interpret natural phenomena.
2. Discriminate between association and causation, and identify the types of evidence used to establish causation.

The QR is recommended for use with general education program assessment and evaluation.

About the QR:

Web-based
 Adaptex software (developed by CARS with FIPSE grant)
 Multiple-choice items
 26 operational, multiple-choice items
 Password protected
 Reliability (Cronbach's alpha): approx. 0.65 for Sophomore/Junior sample
 Reliability (Cronbach's alpha): approx. 0.65 for Freshman sample

Validity Evidence:

Scores on this test have been shown to correlate positively with grades in relevant courses. Scores increase with greater relevant course exposure. Scores discriminate between students who have completed their general education requirements and those who have not.

Technical Requirements:

Internet Explorer 5.0 or later
 Resolution: 1024 X 768
 Windows or UNIX operating system

Administration:

Test software resides on JMU servers
 Secure administration
 CARS provides institutions with dataset of scores and scored responses.

For More Information:

[Click here to download the test manual \(pdf\)](#)

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