## Does It Work? Test and Test Again Lesson – Reading Assessment Worksheet – Answers

 Explain how testing fits into the software/systems design process.
 <u>Testing is a critical component of the design process. To</u> properly test software, a mini-design process must be completed to fully understand how to test and create the specific tests needed to adequately test the designed program.



- Explain why testing is critical to the successful completion of a quality result.
   Testing enables software designers to see if a newly designed solution really addresses the identified problem; it is absolutely essential that the design be properly tested to minimize errors in the future.
- 3. Explain why tests for a section of a program should include normal cases, edge cases, and error cases.

For normal cases: these test that the code actually does what it is supposed to do. For edge cases: these cases are where the code is most likely to contain mistakes, so they should be tested more thoroughly than normal cases. For error cases: the test should confirm that the program does something reasonable (which might be just giving an error message) rather than trying to return a nonsensical answer.

 4. How do these fit into "designing" a quality software test?
 <u>These cases are part of the analysis phase of the design cycle. In the analysis phase, the software designer must decide what cases are required to adequately test the software.</u> Without proper testing, the software will not be adequate for large scale usage by consumers.