In Part I, you learned that John may be at risk for peripheral vascular disease (PVD), specifically peripheral artery disease (PAD). One simple test for diagnosing PAD is called the ankle brachial index (ABI).

1. Record all answers in your laboratory journal.
2. Before you look at the test, review the physiology of blood pressure. Use reference textbooks or the Internet to help you answer the following:

* List and describe at least three body systems that help in the regulation and control of blood pressure.
* Draw a feedback loop that shows one way your body responds to an increase in blood pressure. Make sure to mention all the organ systems, organs, or hormones involved in restoring balance.

1. With your partner, use the Internet to answer the following:

* What is the ankle brachial index (ABI) and how is it computed?
* How does ABI relate to blood pressure?
* What is the difference between systolic and diastolic pressure? To compute an ABI, we use only the systolic blood pressure.
* John is worried about pain during this test. What can you tell him to calm his nerves?

1. Meet with another group and compare your findings.
2. Share your findings with your teacher. You may go over Part II as a class or you may be told to proceed to Part III.
3. Obtain Part III from your teacher.