Lesson 1 Quiz

- Which of these is an example of technology?
  - (A) developing a hypothesis
  - (B) formulating a new theory
  - (C) a sketch of an engine
  - **(D)** an artificial hip replacement
- Which statement **best** describes the reason technology changes over time?
  - F People enjoy having new technology.
  - **(G)** Old technology never meets the needs it was designed for.
  - (H) People's needs are better met when technology is very complex.
  - People find better ways to meet their needs as their knowledge increases.
- What is the first step an engineer should take in developing a new technology?
  - (A) Identify the problem to be solved.
  - **B** Test the model of the new machine.
  - © Design the model for the new machine.
  - **D** Evaluate the performance of the machine.

An engineer designed four braces to offer comfort and support for people who have had knee surgery. The table below shows the results from a survey of 100 people who tried the engineer's four prototype braces.

Brace design	Percentage of people choosing this brace
Brace A	27%
Brace B	18%
Brace C	42%
Brace D	33%

What can the prosthetic designer assume from the information in the table?

- (F) Brace A is preferred by a majority of the people surveyed.
- **(G)** Brace B would most likely keep people from becoming injured again.
- (H) Brace C would be the best choice for comfort and support.
- Brace D is the brace that can most likely be improved by further design.
- A man has a steel rod surgically inserted to replace a shattered bone. Which statement **best** describes the goal of this technology?
  - (A) to develop steel tools
  - **B**) to improve a person's health
  - (C) to learn how the body works
  - **D** to improve how people can walk