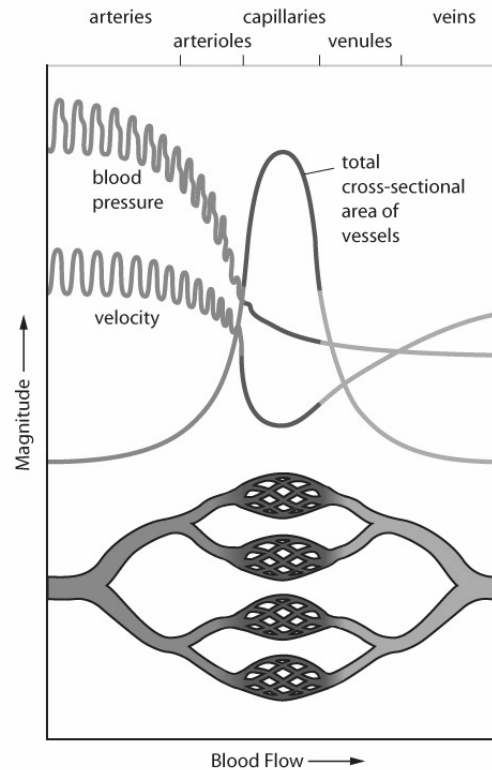


**CHAPTER 8**  
**ANSWER KEY**

# **Blood Velocity and Blood Pressure Answer Key**

**BLM 8.1.6A**


1. Capillaries have the greatest cross-sectional area:
  - a) The speed of blood flow through the capillaries is slower than the flow through the arteries and the veins.
  - b) The relatively low speed of blood flow through the capillaries allows for exchange between the capillaries and the cells.
2. Blood pressure:
  - a) Blood pressure is highest in the arteries and slowly decreases to its lowest pressure in the veins.
  - b) The arteries are closest to the heart and therefore have the highest pressure, whereas the veins are furthest away from the heart and the blood flow there is usually working against gravity.
  - c) The heart provides the initial pressure for the blood.