

The Cardiovascular System: Cardiac Output

1. Define Cardiac Output (CO).
2. Write the equation for CO.
3. Define Stroke Volume (SV).
4. Define Heart Rate (HR).
5. Write the normal values (include correct units) for the following:
 - a. HR (heart rate) = _____
 - b. SV (stroke volume) = _____
6. Given the normal values for HR and SV, calculate cardiac output:

CO =
7. Why would stroke volume increase with an increase in the sympathetic nervous system or an increase in calcium?
8. Why would stroke volume increase when heart rate slows down?
9. If stroke volume is 75 ml/beat and heart rate is 80 beats/min, how many of

the soda bottles would equal the correct volume (from the quiz)? _____