FLINN SCIENTIFIC

Name_____

Student Worksheet

Case Study 1 Questions

1. *a.* Each small square on the chart is 1 mm and 25 mm represents one second. Based on the ECG above, what is the heart rate of this patient in beats per minute?

   b. Is this within a typical resting heart rate range?

2. Is the heartbeat regular or is there an arrhythmia?

3. Does the QRS complex always appear after the P wave? Is the PR segment the same length after each P wave?

4. What does the above ECG indicate about the heart's function?

Case Study 2 Questions

1. *a.* Each small square on the chart is 1 mm and 25 mm represents one second. Based on the ECG above, what is the heart rate of this patient?

   b. Is this within the typical resting heart rate range? If not, is it a case of tachycardia or bradycardia?

2. Does the QRS complex always appear after the P wave? Is the PR segment the same length after each P wave?

3. Is the rhythm of the heartbeat regular or is there an arrhythmia?

4. What does the above ECG indicate about the heart's function?

Case Study 3 Questions

1. *a.* Each small square on the chart is 1 mm and 25 mm represents one second. Based on the ECG above, what is the heart rate of this patient?

   b. Is this within a typical resting heart rate range? If not is it a case of tachycardia or bradycardia?

2. Is the rhythm of the heartbeat regular or is there an arrhythmia?

3. Does the QRS complex always appear after the P wave? Is the PR segment the same length after each P wave?

4. What does the above ECG indicate about the heart's function?

Case Study 4 Questions

1. *a.* Each small square on the chart is 1 mm and 25 mm represents one second. Based on the ECG above, what is the heart rate of this patient?

   b. Is this within a typical resting heart rate range? If not is it a case of tachycardia or bradycardia?

2. Is the rhythm of the heartbeat regular or is there an arrhythmia?

3. Does the QRS complex always appear after the P wave? Is the PR segment the same length after each P wave?

4. What does the above ECG indicate about the heart's function?