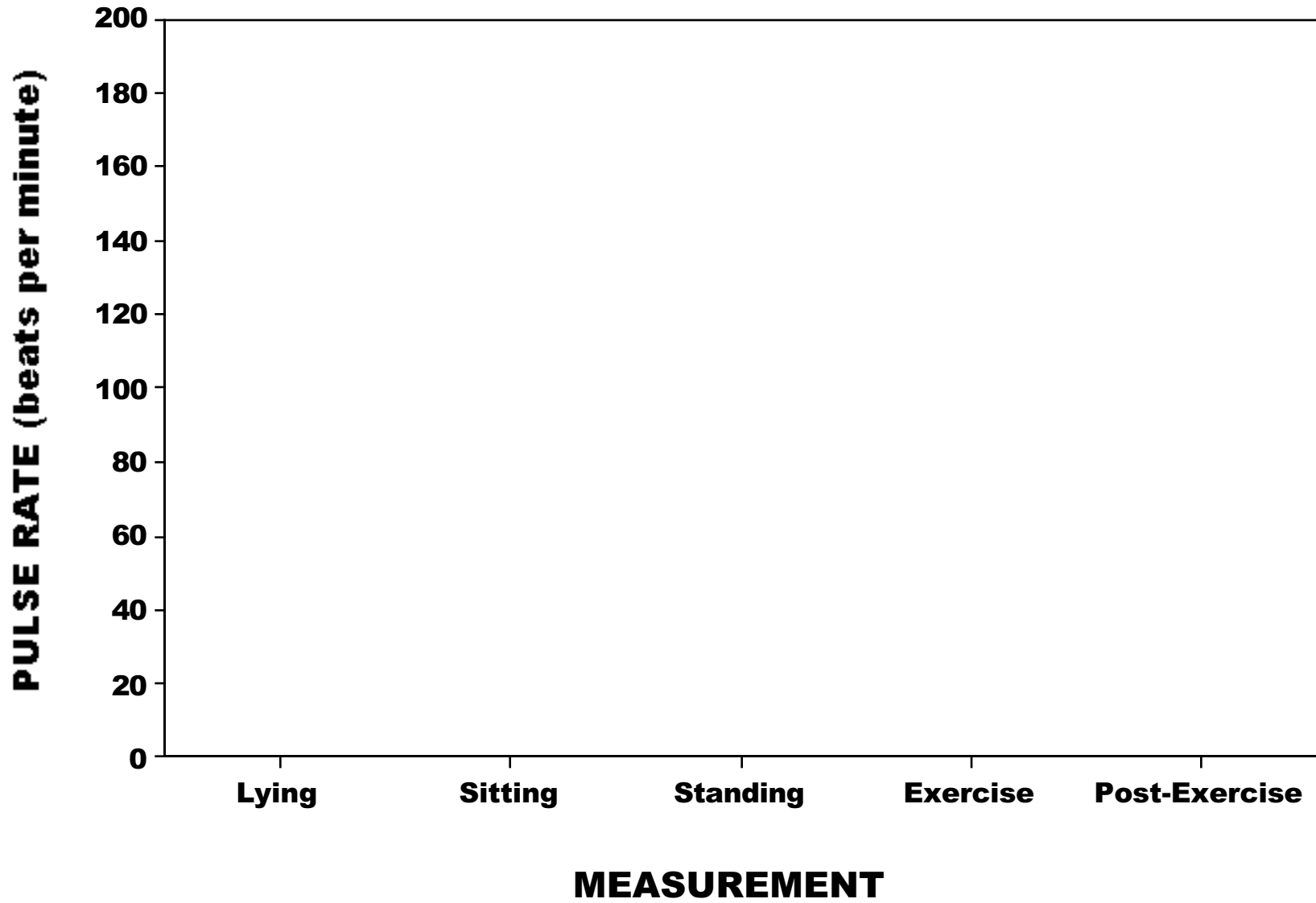


Heart Physiology Worksheet

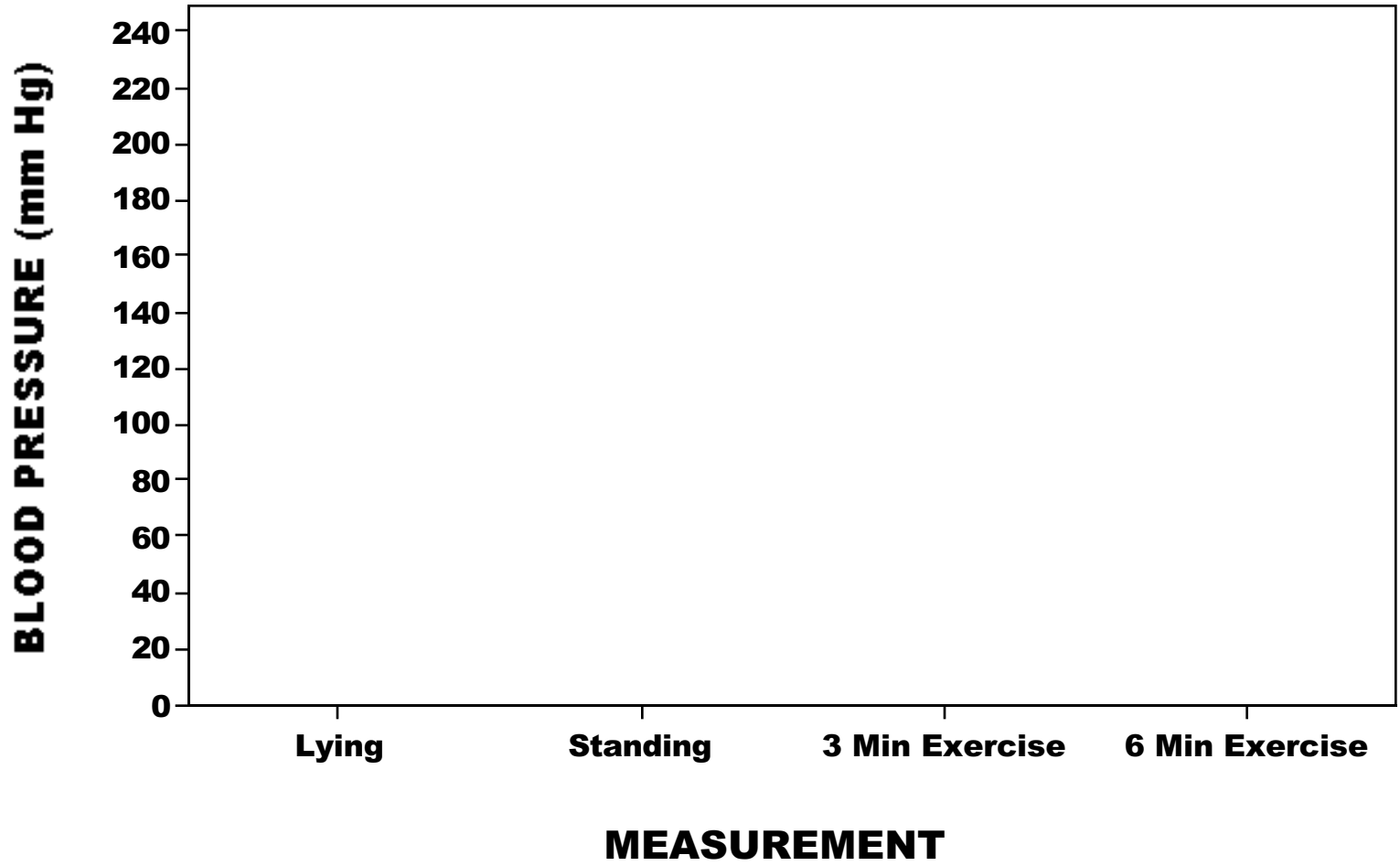
Table 1. Pulse Rate Data

Individual	Lying down	Sitting	Standing	During Exercise	Post-Exercise
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Graph 1. Bar graph of class averages for pulse rate data.



Graph 2. Line graph of class averages for blood pressure measurements.



Questions:**1. Pulse Rate:** Based on examination of your bar graph

a. What were the effects of posture and activity on pulse rate?

b. As best you can, explain why you think these effects occurred.

2. Blood Pressure: Based on examination of your line graph

a. What is the effect of posture on blood pressure? Why do you think this effect occurs? Is this effect the same for both systolic and diastolic pressures?

b. What is the effect of activity on blood pressure? (To answer this, compare your means for 3 minutes of exercise versus the mean blood pressure when standing at rest). Why do you think this effect occurs? Does

activity affect systolic and diastolic pressures in the same way?

- c.** What is the effect of increased activity on blood pressure? (To answer this, compare your means for 3 minutes of exercise versus the mean blood pressure after 6 minutes of exercise). Why do you think this effect occurs? Does increased activity affect systolic and diastolic pressures in the same way?