Heart Physiology Worksheet

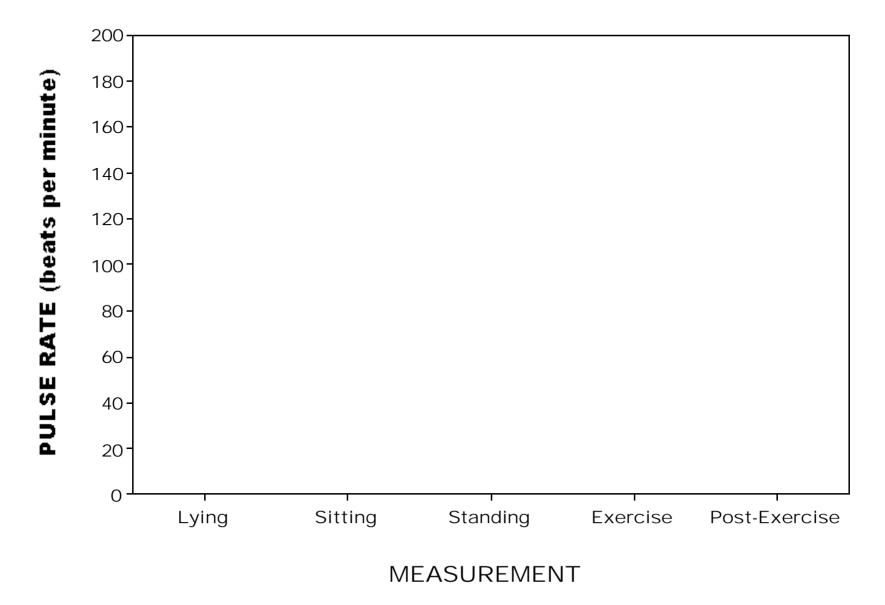
Table 1. Pulse Rate Data

Individual	Lying down	Sitting	Standing	During	Post-
				Exercise	Exercise
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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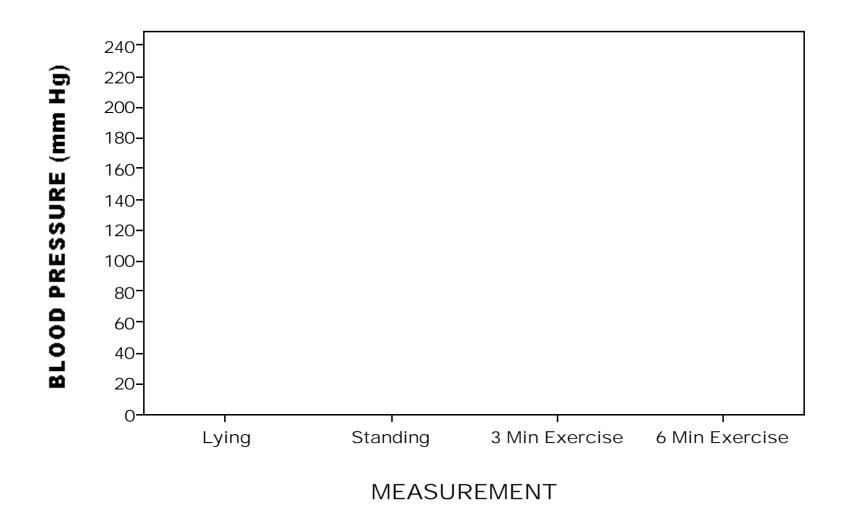
Table 2. Blood pressure data

	Systolic	Diastolic	Systolic	Diastolic	Systolic	Diastolic	Systolic	Diastolic
	Lying	Lying	Standing	Standing		3 min	6 min	6 min
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
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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 Rat	te: Based on examination of your bar graph
a. Wha	at were the effects of posture and activity on pulse rate?
b. Exp	plain why you think these effects occurred.
2. Blood Pro	essure: 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?