

### Lab: Exercise and Homeostasis

**Purpose:** Plan an investigation to examine how heart rate changes during and after an exercise is performed for two different periods of time.

**Time:** Approximately 60 minutes.

**Question:** How does the heart rate change during and after an exercise is performed for two different periods of time?

**Hypothesis:** The change in heart rate has to do with how fit you are and your maximum heart rate, which, for adults, is about 220 beats per minute (bpm) minus your age. For example, if you are 30 years old, your maximum heart rate would be 190 bpm. Doing exercise that increases a person's heart rate to between 50 to 85 percent of their maximum heart rate. This range is called the target heart rate zone. It is recommended that a person gets at least 30 minutes of moderate to vigorous exercise—exercise that elevates their heart rate to the target heart rate zone—on most days of the week, or a total of about 150 minutes a week.

#### Data and Observations:

Table 1: Effect of Exercise

| Total Time (Minutes)  | Heart Rate (Beats per Minute) | Breathing Rate (Breaths per Minute) | Perspiration Level (Scale of 0 to 5) |
|-----------------------|-------------------------------|-------------------------------------|--------------------------------------|
| 0 – Prior to Exercise | 87                            | 33                                  | 0                                    |
| 2 Minutes             | 118                           | 57                                  | 0                                    |
| 6 Minutes             | 86                            | 32                                  | 1                                    |
| 8 Minutes             | 110                           | 41                                  | 2                                    |
| 9 Minutes             | 142                           | 46                                  | 3                                    |

Table 1: shows the heart rate, breathing rate and perspiration level of exercisers over nine minutes

Table 2: Effects of Exercise: Class Averages

| Variables Measured |         | Hameed | Wasey | Zaid | Travis | Farah | Averages: |
|--------------------|---------|--------|-------|------|--------|-------|-----------|
| Heart Rate         | Start:  | 104    | 68    | 84   | 98     | 104   | 73        |
|                    | Finish: | 36     | 154   | 119  | 121    | 144   | 115       |
| Breathing Rate     | Start:  | 20     | 57    | 63   | 20     | 32    | 38        |
|                    | Finish: | 68     | 65    | 64   | 32     | 47    | 59        |
| Perspiration Level | Start:  | 0      | 0     | 1    | 1      | 0     | 1         |
|                    | Finish: | 1      | 3     | 4    | 1      | 2     | 1         |

Table 2: shows the averages of the entire group's heart rate, breathing rate and perspiration levels at two period of time. 1<sup>st</sup> period: At the start of the exercise. 2<sup>nd</sup> period: At the end of the exercise.

# Homeostasis And Exercise Lab Answers

**M Walker**



## **Homeostasis And Exercise Lab Answers:**

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