**Part I: Chapter 1: Data**

**Open the data provided. The data includes all of the results for a promotion exam cycle at the New Haven Fire Department in 2003. The columns represent the race of the examinee coded as W for white applicants, B for black applicants and H for Hispanic applicants. The next columns are the scores for the oral and then the written parts of the exam. Under an agreement between the firefighter’s union and the city government, the written exam was weighted as 60% of total score and the oral exam was weighted as 40% of total. The final column of data will be the aggregate score for each examinee. Only applicants with an aggregate score of 70% or above were eligible for promotion. In addition, the department was required by the city charter of New Haven to fill the “*x”* available positions from a list of the top “*x+2”* candidate scores. This “eligibility list” could be used for a two year period of time to fill any additional vacancies that occurred.**

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| --- | --- |
| **Variable Label** | **Measured In** |
| **Race** | **W(white), B(black),H(Hispanic)** |
| **Position** | **Lieutenant, Captain** |
| **Oral exam** | **Numerical, 0-100** |
| **Written exam** | **Numerical, 0-100** |

**Based on the description of the data, answer the following questions.**

**Task 1:**

* **Does the data represent a sample or a population? Explain your answer.**
* **Would this be considered an observational or experimental project? Explain your choice.**

**Task 2: Determine the level of measurement for each of the variable.**

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| --- | --- | --- |
| **Variable** | **Level of Measurement** | **Explanation** |
| **Race** |  |  |
| **Position** |  |  |
| **Oral exam** |  |  |
| **Written exam** |  |  |