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|  | AUTOPSYREPORT  |   |  |  |  |
|  | **Evidence Found at Crime Scene** | **Empirical Formula & Molecular Formula** | **Drug Identification** **& Use** | **Possible suspect & their link to this evidence** | **Possible motive for the suspect as it relates to Tony’s death** |
| 1 | Unlabeled drug bottle in medicine cabinet | EF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Rofecoxib- is prescribed for treatment of Osteoarthritis, prolonged use may lead to heart attack.  |  |  |
| 2 | Tipped cup with a faint almond scent around the rim | EF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Hydrogen cyanide- has a faint bitter almond-like odor & is often used in rat poison. It is highly toxic to all mammals. |  |  |
| 3 | Partially full bottle of acetaminophen | EF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Tylenol-used for pain relief, overdose may cause acute liver failure.  |  |  |
| 4 | Altered air flow rates in laboratory | EF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_MF=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  Benzene gas- is highly toxic & may cause death in people who inhale large amounts.  |  |  |

 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the following Final Clues from the Autopsy Report to determine who was responsible for the death of Tony DeMoy:

1) It is not the substance whose sum of the subscripts on the molecule or formula is 20.

2) It is not the substance whose sum of the subscripts on the molecular formula divided by the subscript on oxygen is 9.

3) It is not the substance whose empirical & molecular formulas are different.

Based on all of the evidence & test results, explain who you think is responsible for the death of Tony DeMoy.