**Worksheet 2: Impact of Bias and Imprecision on TE 704**

Directions: Use the following key numbers to complete the table below. Please note there are 2ways to calculate %TE. The second way is introduced in this worksheet. On the following page of this worksheet, illustrate the method performance of each laboratory. Include the target value, the Gaussian curve, an arrow representing SE (if applicable), an arrow representing RE, and an arrow representing TE.

|  |  |  |  |
| --- | --- | --- | --- |
| **Analyte:** Platelet Count (cell \* 109/L) | **Mean** | **True Value**  **(target)** | **SD** |
| Lab A | 150 | 150 | 5 |
| Lab B | 145 | 150 | 5 |
| Lab C | 150 | 150 | 10 |
| Lab D | 145 | 150 | 10 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Analyte** | **Bias**  -True Value | **l Bias l**  (abs bias)  | -True Value| | **TE in units**  Abs Bias + (1.65\*SD) | **TE in %**  (TE /True Value) \*100% | **%CV**  (SD /)\*100% | **Abs Bias %**  (Abs Bias /True Value) \*100% | **TE in %**  Abs Bias % + (1.65\* %CV) |
| Lab A |  |  |  | (8.3 / 150) \*100%  =5.5% |  |  |  |
| Lab B |  |  |  |  |  |  |  |
| Lab C |  |  |  |  |  |  |  |
| Lab D |  |  |  |  |  |  |  |