**Unit 8 EOC: Precision, Accuracy, and Error**

1. precision
   1. define
2. Accuracy
   1. Define
3. comparison

*copy (or cut and paste) the charts in your EOC notebook*

**The accepted density of water at 25oC is 1.01 g/mL.**

comment on the accuracy and precision of each student

|  |  |
| --- | --- |
| Bill’s data | Measured density of water in g/mL |
| 1 | 2.10 |
| 2 | 1.9 |
| 3 | 1.88 |
| 4 | 2.05 |

Bill’s data has \_\_\_\_precision and \_\_\_\_ accuracy

|  |  |
| --- | --- |
| Sue’s data | Measured density of water in g/mL |
| 1 | 1.09 |
| 2 | 0.99 |
| 3 | 0.96 |
| 4 | 1.02 |

Sue’s data has \_\_\_\_\_ precision and \_\_\_\_\_\_ accuracy

|  |  |
| --- | --- |
| Ben’s data | Measured density of water in g/mL |
| 1 | 2.10 |
| 2 | 1.5 |
| 3 | 1.88 |
| 4 | 1.12 |

Ben’s data has \_\_\_\_ precision and \_\_\_\_ accuracy

1. error

if Rick’s measured density was 1.21, what would be his percent error? (*copy the question and show detailed instruction on how to calculate percent error*