Significant Figures Reporting — Student Practice

LAB REPORT & DATA QUALITY / PRACTICE

Name: _____ Date: _____

Show units and work. State assumptions and reporting precision. Leave enough space for each explanation.

1. **Calculate 12.11 + 0.3. Give the correctly rounded final answer.**

2. **Calculate 6.20 × 2.1. Give the correctly rounded final answer.**

3. **Calculate 1.25 / 0.500. Preserve the reported significant figures.**

4. **Calculate 0.00450 × 2.0. Preserve the reported significant figures.**

5. **Explain why 0.0300 has three significant figures while 0.03 has one.**

6. **Round 1.265 to three significant figures using round-half-to-even. State the reporting convention.**