# Group Quiz 1.1

Name

Round your uncertainty to two digits, and the answer to that place. (?)

**1. Adding or subtracting**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 23.5 ± 0.4 |  | 127 ± 5 |  |
|  | + 42.6 ± 0.7 |  | - 98 ± 2 |  |
|  |  |  |  |  |
|  |  |  |  |  |

**2. Multiplying and/or dividing:**

**With % uncertainty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 9 ± 5% | 12 ± 3% | 119 ± 12% | 209 ± 7% |
|  | x 7 ± 3% | x 4 ± 11% | ÷ 17 ± 4% | ÷ 19 ± 5%  |

**With absolute uncertainty:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 7.8 ± 0.5 | 7.35 ± 0.09 | 312 ± 2 | 22.6 ± 0.9 |
|  | x 8.4 ± 0.3 | x 2.23 ± 0.03 | ÷ 11 ± 1 | ÷ 1.78 ± 0.05  |
|  |  |  |  |  |
|  |  |  |  |  |

**3. Powers**

|  |  |  |  |
| --- | --- | --- | --- |
| (15.0 ± 2.5)2 | (2.75 ± 0.12)4 | $$\sqrt{17.0 \pm 2.1}$$ | $$\sqrt[4]{1250 \pm 113}$$ |