**IB Physics**

**FA 1.1 - Uncertainty**

Name

Do these calculations – express the answer as a result and an uncertainty. For the multiplication and division, round the uncertainty to two places, and round the answer to match the decimal place of the

uncertainty. **You must memorize the formulas for this!**

When you have finished this, go to the website and check your answers. If you got a problem wrong, cross it off on the front, and do it correctly on the back.

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| --- | --- |
| (2.4 ± 0.1) + (4.5 ± 0.3) = ?  6.9±.4 | (7.2 ± 0.5) - (3.1 ± 0.4) = ?  4.1±.9 |
| (7.3 ± 0.2) x (9.5 ± 0.2) = ?  69.4±3.4 | (12.7 ± 0.5) / (3.1 ± 0.2) = ?  4.10±.43 |
| (9 ± 5%) x (7 ± 8%) = ? (Give a percent uncertainty)  63±13% | (56 ± 2%) / (7 ± 3%) = ? (Give a percent uncertainty)  8±5% |
| (9.0 ± 0.2)2  81.0±3.6 | √(25 ± 2)  5.00±.20? |