Mathematics CFA Template

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| Pre-Instruction: Part 1 |
| 1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do): |
| 7.RP.3 – Use proportional relationships to solve multi-step ratio and percent problems. (e.g. *markups and markdowns, percent increase or decrease, percent error)*. |
| 2. Mathematical Practices |
| SMP.1SMP.4SMP.5SMP.7 |
| 3. I Can Statements – Put learning targets in student friendly terms. |
|  **I CAN,** solve multi-step ratio and percent problems that involve markup & markdown, percent increase and decrease, and percent error.Depth of Knowledge of the standard (Highlight the Level of the Learning Target): Level 1 Recall; Level 2 – Skill/Concept; Level 3 – Strategic Thinking; Level 4 – Extended Thinking |
| 4. List the skills students need to know in order to begin this standard: |
| 1. Functions / keys of calculator
2. Cross multiplication
3. Part of proportions
4. What is a percent of number
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| 5. What type of assessment am I going to write? [selected response (m/c, t/f, y/n, matching, fill in \_\_\_) **or** constructed response (**short:** word, phrase, sentence, single problem; **extended**: multi-step operations in math, problem solving)] List the assessment questions. |
| 1. A shirt from Dillard’s cost $49.95. Last week the same shirt cost only $45.95. What was the percent of markup?
2. A 45” Flat Screen TV is listed at $499. This week it is on sale at a 30% discount.
3. Determine the amount of the discount.
4. Calculate the new price of the TV.
5. Gas prices yesterday were set at $3.18 per gallon. Today, the same gas station has the price at $3.08 per gallon. Determine the percent of increase in gas price from yesterday to today.
6. You estimated that 70 people would attend the band concert, but in fact 80 actually attended. What was the percent error of your estimation?
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| 6. Scoring Guide  |
| **Exceeds Expectations:** 5 of 5 with proper procedure shown**Proficient:**  4 of 5 correct with proper procedure shown**Approaching Proficiency:** 3 of 5 correct with proper procedure shown**Not Proficient:** 1 or 2 of 5 correct.  |