

Mathematics CFA Template

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.1
SMP.4
SMP.5
SMP.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:

- Functions / keys of calculator
- Cross multiplication
- Part of proportions
- What is a percent of number

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.

- A shirt from Dillard's cost \$49.95. Last week the same shirt cost only \$45.95. What was the percent of markup?
- A 45" Flat Screen TV is listed at \$499. This week it is on sale at a 30% discount.
 - Determine the amount of the discount.
 - Calculate the new price of the TV.
- 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.
- You estimated that 70 people would attend the band concert, but in fact 80 actually attended. What was the percent error of your estimation?

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.