

## Mathematics CFA Template

### Pre-Instruction

1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do):

7.NS.2 – **Apply and extend** previous understanding of multiplication and division of fractions to **multiply and divide** rational numbers.

c) **Apply** properties of operations as strategies to **multiply and divide** rational numbers

### 2. Mathematical Practices

SMP.1 – Make sense of problems and persevere in solving them.

SMP.2 – Reason abstractly and quantitatively

SMP.5 – Use appropriate tools strategically

SMP.6 – Attend to precision

SMP.7 – Look for and make use of structure

### 3. I Can Statements – Put learning targets in student friendly terms.

**I CAN**, multiply and divide rational numbers

**I CAN**, understand the signed rules of multiplication and division

**I CAN**, understand different forms of writing opposite quotients  $-(p/q) = (-p)/q = p/(-q)$

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:

- Multiply and divide positive integers and rational numbers
- Simplify rational number
- Vocabulary (divisor, numerator, denominator, rules of signed numbers)

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.

- $-(3/8) \times 8$
- $-3(1/3) \div -(2/3)$
- $3.4 \times 2.25$
- $5.25 \div -0.5$

### 6. Scoring Guide

**Exceeds Expectations:** Proficient, AND beyond (picture, model, etc)

**Proficient:** All four are correct numerically and correct sign

**Approaching Proficiency:** 2 to 3 out of 4, with some signs correct but not all

**Not Proficient:** 1 out of 4

