

# Mathematics CFA Template

## Pre-Instruction

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

5.NF.6 Solve real world problems involving multiplication of fraction and mixed numbers, eg. by using visual fraction models or equations to represent the problem.

### 2. Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

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

I can solve real world problems where I multiply fractions and mixed numbers.

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:

Use fraction models and equations to represent problems.  
Multiply fractions by a mixed 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.

Complete the open responses below. Be sure to explain and show your work.

There are  $2\frac{1}{2}$  bus loads of students standing in the parking lot. The students are getting ready to go on a field trip.  $\frac{2}{5}$  of the students on the bus are girls. How many buses would it take to carry **only** girls?

Evan bought 6 roses for his mother.  $\frac{2}{3}$  of them were red. How many red roses were there?

### 6. Scoring Guide

**Exceeds Expectations:** Student answers both questions correctly including correct explanation and work along but reflects more than one strategy.

**Proficient:** Student answers both questions correctly with correct explanation and work shown.

**Approaching Proficiency:** Student answers both questions correctly but work may and explanation may reflect mistakes.

**Not Proficient:** Students answers one question correctly showing correct work and explanation.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Power Standard: 5.NF.6

Directions: Solve the following open response problems. Be sure to explain and show all work.

There are  $2\frac{1}{2}$  bus loads of students standing in the parking lot. The students are getting ready to go on a field trip.  $\frac{2}{5}$  of the students on the bus are girls. How many buses would it take to carry **only** girls?

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