

Mathematics CFA Template

Pre-Instruction

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

6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 and find the least common multiple of two whole numbers less than or equal to 12. Use distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor [For example, express $36+8$ as $4(9+2)$].

2. Mathematical Practices

- #1- Make sense 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.

1. I can find the greatest common factor of 2 whole #s less than or equal to 100.
2. I can find the least common multiple of 2 whole #s less than or equal to 12.
3. I can use the distributive property to express the sum of 2 whole #s 1-100.

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. Read and understand/make sense of word problems
2. Vocabulary- Factor, Multiple, Distributive property, Sum, Greatest common factor, Least common multiple
3. Prime factorization
4. Know how to decompose a #
5. Understand compatible #s

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.

Exit tickets- Vocabulary plus skills

Constructive response-short: few questions

Word problems including Greatest common factor and least common multiple of whole #s, distributive property

1. What is the greatest common factor of 24 and 36? How can you use factor lists or the prime factorizations to find the GCF?
2. What is the least common multiple of 12 and 8? How can you use multiple lists or the prime factorizations to find the LCM?
3. Rewrite $84+28$ by using the distributive property. Have you divided by the largest common factor? How do you know?
4. Given various pairs of addends using whole numbers from 1-100, students should be able to identify if the 2 numbers have a common factor. If they do, they identify the common factor and use the distributive property to rewrite the expression.

6. Scoring Guide

Exceeds Expectations: Student answered 4 out of 4 questions correctly

Proficient: Student answered 3 out 4 questions correctly

Approaching Proficiency: Student answered 2 out of 4 questions correctly

Not Proficient: Student answered 1 out of 4 questions correctly

Name: _____

6.NS.4 Exit Slip

Directions: Answer the following questions

1. What is the greatest common factor of 24 and 36? How can you use factor lists or the prime factorizations to find the GCF?
2. What is the least common multiple of 12 and 8? How can you use multiple lists or the prime factorizations to find the LCM?
3. Rewrite $84+28$ by using the distributive property. Have you divided by the largest common factor? How do you know?
4. Identify if the following pairs of numbers have a common factor. If they do, use the distributive property to rewrite the expression.
 - a. $24+68$
 - b. $13+69$
 - c. $27+63$
 - d. $21+42$

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