

# 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.8-**Solve** real-world and mathematical problems by **graphing** points in all four quadrants of the coordinate plane. **Include** use of coordinates and absolute value to **find** distances between points with the same first coordinate or the same second coordinate.

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.

1. I can solve real world and mathematical problems by graphing points in all four quadrants of the coordinate plane.
2. I can include use of coordinates and absolute value to find distances between points with the same first or second coordinate.

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

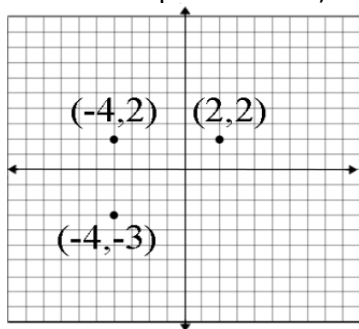
4. List the skills students need to know in order to begin this standard:

1. Vocabulary- quadrant, coordinate plane, absolute value, ordered pair, integers, x axis, y axis

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 and skills-matching- Working understanding of terminology  
Constructive response-short; few questions

Using the coordinate plane below, answer the following questions:



1. Name the ordered pair in each quadrant:  
Quadrant I:  
Quadrant II:  
Quadrant III:

2. If the points on the coordinate plane are the three vertices of a rectangle, what are the coordinates of the fourth vertex? How do you know?
3. What are the length and width of the rectangle?

#### 6. Scoring Guide

**Exceeds Expectations:** Student answered 3 out of 3 .

**Proficient:** Student answered 2 out of 3.

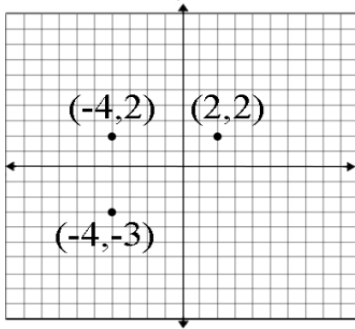
**Approaching Proficiency:** Student answered 1 out of 3.

**Not Proficient:** Student answered less than 1.



**6.NS.8 – Formative Assessment**

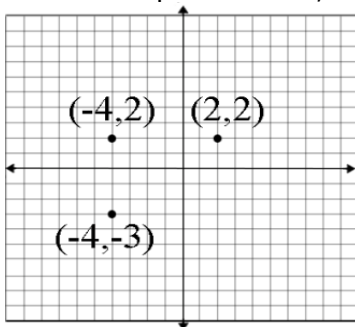
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