

# Classroom Assessment Techniques (CATs) Speaker: Jo Harrington



# The four steps to completing a CAT:

- 
- 1 Choose a learning goal to assess
  - 2 Choose an assessment technique and apply it
  - 3 Analyze the data and respond to it
  - 4 Document the assessment

MATH 1828  
COLLEGE ALGEBRA

Name \_\_\_\_\_

*Directions: Carefully work each problem and clearly mark your answer:*

- 1) Write the equation of the line passing through the points:  $(-1, 3)$  and  $(2, -5)$ .
  
- 2) Write the equation of the line which passes through the point  $(0, -2)$  and is perpendicular to the line:  $y = 4x - 6$
  
- 3) State the domain of the following function:  $f(x) = \sqrt{x - 6}$
  
- 4) Given the function,  $f(x) = 5x + 1$ , find  $f(-1)$ :

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*Directions: Carefully work each problem and clearly mark your answer:*

2) Write the equation of the line passing through the points:  $(-1, 3)$  and  $(2, 5)$

**CLASS AVERAGE: 70%**

2) Write the equation of the line which passes through the point  $(0, 4)$  and is perpendicular to the line:  $y = 4x$

**CLASS MEDIAN: 88%**

3) State the domain of the following function:  $f(x) = \sqrt{x-6}$

4) Given the function,  $f(x) = 5x + 1$ , find  $f(-1)$ :

# Question Level Analysis

#	Competency	% Correct
1	Find the equation of a line	97%
2	Find a perpendicular line	87%
3	Find the domain of a function	73%
4	Evaluate a function	63%
5	Determine if a given equation is a function	77%
6	Find the zeroes of a function	10%
7	Find the composition of two functions	70%
8	Find the inverse of a function	90%

6) Find all zero(s) of the following function:  $f(x) = x^2 - 5x - 8$

# Determine the zeros of a function.

1

Set the equation  
equal to  $0$

2

Solve the equation

3

Use the quadratic  
formula

# CATs

- **Nods/Audible**

- “So, to find the zeros of a function, we first set the equation equal to five, right?”
- “Oh, then to find the zeros of a function, we first evaluate the equation at zero.”

# CATs

- **Documented Problem Solving/Walk-About**
  - Solve the following equation for x, showing all steps:  
 $3x - 6 = 0$
  - Solve the following equation for x, showing all steps:  
 $x^2 - 4x - 5 = 0$
  - Solve the following equation for x, showing all steps:  
 $x^2 - 3x - 7 = 0$

# CATs

- **Background Knowledge Probe**

Write out the quadratic formula used to solve:

$$ax^2 + bx + c = 0$$

# CATs

## “Y” Diagram

Thomas, Owen and Caldwell, Joanna. “Father and Daughter: Edward and Emily Dickinson.” *Journal of American Literature*. 40. 8.1960: 510-523.

### The Question:

Identify the errors  
(according to 2009  
MLA guidelines)

### The “Why”:

For each error you’ve  
identified, describe in  
detail “why” you think  
it is an error.

# CATs

## Muddiest Point

Unit 2: Chapters 3 & 4 - MUDDIEST-POINT



Let me know what isn't making sense and I will try and add more explanation, more examples, more something until it does.

**Assignment:** Complete by Thursday night (5pts for participation).

Any Questions?

**Answer the following question: As you go through the material for this chapter, what is lacking, what needs more explanation? In other words, what is your "Muddiest Point?" If there is nothing specific at this point, then use this as an opportunity for you to ask a question (over any of the assignments) as you would in class.**

**Be sure to review the threaded discussion throughout the week to learn from the**