

# Error Analysis

## Math, Grades 9-12

### Assignment Objectives

- Students will work with Paper tutors to identify the errors in worked out math problems based on your lesson of the day.
- Students will explain their thinking about the mistakes in a solution when chatting with a Paper tutor.

### Teacher Instructions

- The activity below can be used with any lesson or assignment you are giving with error analysis problems.
- All you need to do is insert the problems you want to use in the activity below and give to students!
- Then inform students they will be using Paper Live Help when completing their assignment.

### Ideas for Use

- Connect students with a Paper tutor via Live Help as they work independently or in partners.
- Assign small groups to work with a Paper tutor where one student chats with a tutor while the others take notes
- Make homework assignments out of it!
- Use this activity when you have a substitute or need to provide sub plans.

### Student Example

Jacob is looking at the following table. He needs to determine if it is a linear or exponential function.

x	f(x)
0	3
1	9
2	27
3	81

Jacob says "This table of values represents a linear function because the function increases by 3 each time".

#### Where is the error?

Jacob made an error when he said the function is linear. I chatted with my Paper tutor about why the function is exponential and understand why he made that error.

#### Show the correct solution!

The function is increasing by a factor of 3 for each x-value which makes f(x) an exponential function.

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## Error Analysis

### Student Instructions

1. Log in to Paper and start a Live Help session.
2. Choose a method to send the tutor the problem you are working on:
  - a. Send the tutor a screenshot of the problem.
  - b. Draw on the whiteboard.
  - c. Click on the camera icon to take a picture of the problem.
3. Let the tutor know what you are thinking!
  - "I think the work is incorrect in the second line!"
  - "I'm not sure why the work shown is incorrect."
4. In the space below, write down what you and the tutor agree needs to be fixed.
5. Work out the correct solution! Way to go!

Write the error analysis problem here.

Where is the error?

Show the correct solution!

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