Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Error Analysis**  Date \_\_\_\_\_\_\_\_\_\_\_

**Directions:** Look at the following problem and determine whether the student made an error. Explain what and how the error was made. Provide the correct answer and show your work. **The Problem**

Kristof wants to paint the perimeter of his rectangular bedroom ceiling, but he’s not sure how much paint he needs since he’s only painting a border. His ceiling measures 10 feet by 8 feet. Paint costs about $3 per foot. Kristof thinks he’ll need to cover 80 feet of space, making is paint cost $240. Does Kristof need $240 to paint the perimeter of his ceiling?

$$\frac{1}{3}$$

**What is the error? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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Explain what and how the error was made: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Work out the correct answer. Use pictures, numbers, and words.