

# MAKE SENSE OF STORY PROBLEMS USING MISSING PAGES

Cindy Cliche

Twitter: @cindycliche1

[cindy.cliche@cityschools.net](mailto:cindy.cliche@cityschools.net)

Jeremy Winters

[jwinters@mtsu.edu](mailto:jwinters@mtsu.edu)

# **WAYS STUDENT BENEFITS FROM READING AND WRITING MATHEMATICALLY**

- ▶ Focus on and work through problems.
- ▶ Communicate ideas coherently and clearly.
- ▶ Organize ideas and structure arguments.
- ▶ Extend their thinking and knowledge to encompass other perspective and experiences.
- ▶ Understand their own problem solving and thinking processes as well as those of others.
- ▶ Develop flexibility in representing and interpreting ideas.

**ONCE UPON A TIME....**

## **GIVE IT A GO!**

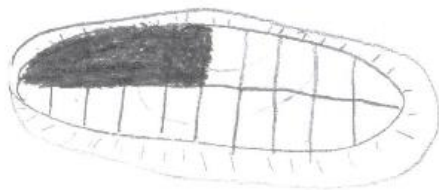
- You are the student. Take a few minutes to complete the missing page.
- Share with a partner.

# MISSING PAGES

## WHOLE CLASS SHARE

Whitney replied "I've  
lost 5 teeth. She  
said the end.

$$7 - 2 = \underline{5}$$



# STUDENT WORK SAMPLES

Take a few minutes to analyze the student work samples.

- *How are students make sense of the problem?*
- *What representations are you noticing in their work?*
- *What are the classroom implications of Missing Pages?*

# **A TWIST ON BOOKS**

Writing Mathematical Books  
for all situations

[Website:](https://mathmissingpages.wordpress.com/)


<https://mathmissingpages.wordpress.com/>

## **YOUR TURN.....**

- Create a book and look for it on the website!



## How are things shaping up?




What questions  
are **CIRCLING**  
around in your  
head?



What's  
**SQUARING** with  
my beliefs?



What are  
three points  
worth  
remembering?



What are my  
next steps?