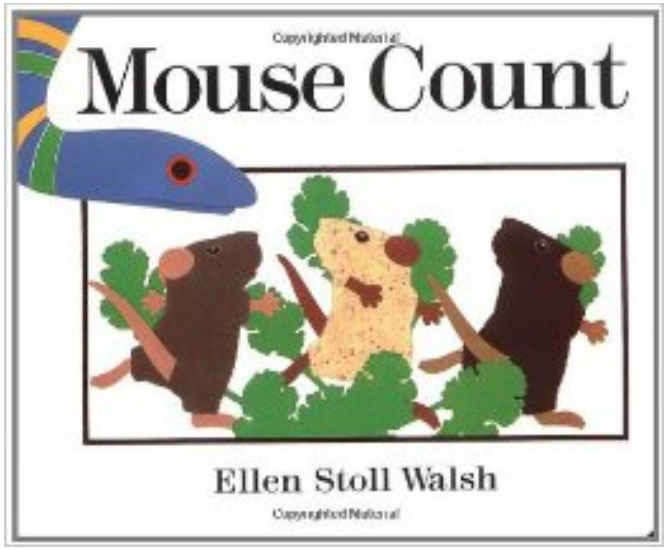
Classroom Connections: DAY 3

Math in Books

Icebreaker

Story Acting:

Mouse Count by Ellen Stoll Walsh



Video Analysis

Mouse Collections

A Research Lesson in PreK and Kindergarten

As you watch this video clip, consider the role of the book in meaning-making.

Counting Book Analysis

Examine the counting books at your table.

Consider the questions on the analysis sheet.

Then, as a group, select the one most mathematically-powerful counting book to share with the whole group.

Here are some questions to help you analyze the mathematics of a counting book:

- *How high does the book count to? (1-10, higher)*
- *As the numbers change, are the illustrations cumulative (more join or leave the same group) or is each number a new set of things?*
- *Are any hierarchical relationships depicted in the illustrations (one smaller number embedded in a larger number)?*
- *Is zero used appropriately?*
- *If involving higher numbers, does the book introduce patterns or arrays or somehow reinforce the idea of grouping and place value?*
- *Does the book introduce separating and joining concepts (addition and subtraction)? Does it do so at fairly simple level of counting up or down by ones? Are counting-on strategies possible?*
- *Is the counting embedded in a story that helps make a math all around us connection?*
- *Is the counting tied to another informational concept, such as animal study?*

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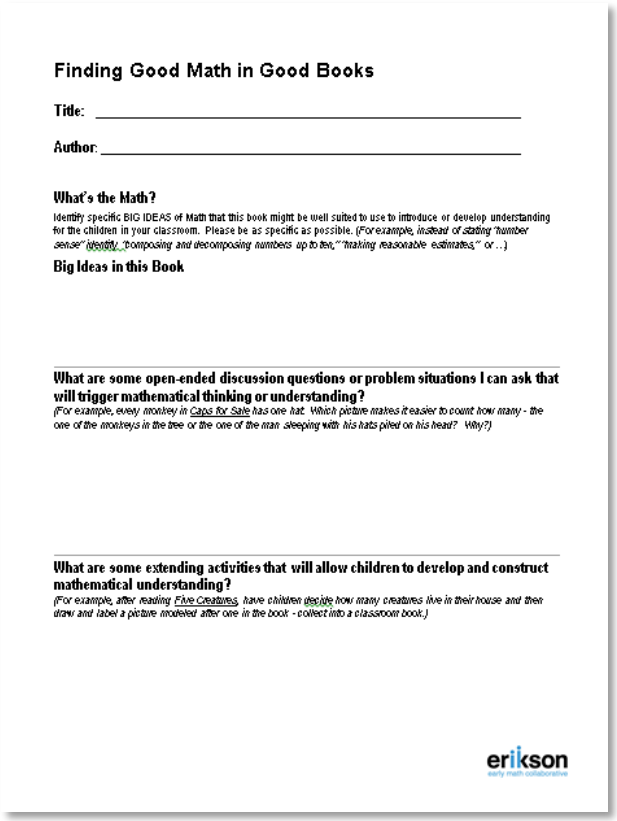
Finding Good Math in Good Books

Partners select one non-counting book and find the math.

1. Complete the form.
2. Turn it in to be scanned and sent to all teacher-participants.



Finding Good Math in Good Books

Title: _____

Author: _____

What's the Math?

Identify specific BIG IDEAS of Math that this book might be well suited to use to introduce or develop understanding for the children in your classroom. Please be as specific as possible. (*For example, instead of stating "number sense" identify "composing and decomposing numbers up to ten," "making reasonable estimates," or . . .*)

Big Ideas in this Book

What are some open-ended discussion questions or problem situations I can ask that will trigger mathematical thinking or understanding?

(For example, every monkey in Caps for Sale has one hat. Which picture makes it easier to count how many - the one of the monkeys in the tree or the one of the man sleeping with his hats piled on his head? Why?)

What are some extending activities that will allow children to develop and construct mathematical understanding?

(For example, after reading Five Creatives, have children decide how many creatures live in their house and then draw and label a picture modeled after one in the book - collect into a classroom book.)

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Stop & Reflect