

## Getting Good Math out of a Good Book

**Where/What is the Math?** Analyze the book to identify BIG IDEAS of math that this book might be well-suited to introduce or develop understanding for your classroom - be as specific as possible. *For example, instead of stating number sense, identify composing and decomposing numbers up to 10, reinforcing 1-to-1 correspondence, understanding 2-digit place value, etc.*

**What are some open-ended discussion questions or problem situations that will provoke 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 Creatures*, 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.*

**Key Features of the Book** *For example, Is the book a narrative? Is the focus informational? Is the art realistic, photo, or fanciful? Does the story feature human or animal characters? How do the illustrations and the text interact?*

### Which statement best describes this book?

- Math concepts are the focus of the book rather than a story as such—counting books, books about shapes or fractions are common math concept books.
- Math situation/problem is embedded in the story (*Roll Over, Grandfather Tang*)
- Math understandings/problems can be drawn out of the book (*Caps for Sale*)

### Mathematizing the Book (with your class in mind): What connections can you make?

- **Math to self:** Is there a relationship between the math in the book and students' experiences?
- **Math-to-math:** Is the math situation related to a type of math problem situation in another book or to the math that you have been working on in your classroom?
- **Math-to-world:** Does the math in the book relate to a real-world issue or situation?