



# Understanding Middle School Math: Cool Problems to Get Students Thinking and Connecting

*Arthur Hyde, Susan Friedlander, Cheryl Heck, Lynn Pittner*

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*A book of cool problems for middle school mathematics classrooms—does it get any better? Yes, it does. Art Hyde and his colleagues go far beyond providing a collection of problems. They address big ideas, make connections, nurture the use of varied representations, and provide vivid accounts of actual classroom implementation.*

**-Judith Zawojewski**

Board of Directors, NCTM

Imagine handing students state-by-state data on the number of gallons of soft drinks sold per person in one year. Imagine using it to lead a vibrant problem-solving session in which students energetically pose and answer mathematical questions:

*Why does it say sold instead of consumed?*

*What IS a soft drink? Is it the same as soda?*

*Who would collect this kind of data? Why would they collect it?*

*How was gallons per person calculated?*

*What was the total amount of soda sold in our state?*

*How many 12 ounce cans is that? 20 ounce bottles? How many of each per person?*

*Understanding Middle School Math* gathers 50 cool problems like this that lead to deep thinking. Problems such as the Renovation Problem, in which students uncover ideas about how perimeter, area, length, and cost affect a construction project. Or Chocolate Algebra, where they discover linear relationships among the pocket money available to buy two differently priced chocolate candies.

Arthur Hyde combines the latest research and decades of classroom experience to braid language, cognition, and math. His approach can help any student, including underprepared ones, with the rigors of math in middle school and beyond. He has created and adapted problems that strongly connect math to the real world, to students' lives, and to prior knowledge. Problems that scaffold content and processes, and give students multiple entry points into learning. Every problem has been extensively field tested and refined by classroom teachers. And for each cool problem practicing middle school teachers describe how they used it to differentiate over a wide range of students and extend learning.

For fantastic problems your students won't soon forget and teaching solutions that are exciting, substantial, and transformative, turn to Art Hyde. Read and use *Understanding Middle School Math* and pass your love of math on as you meet your classroom goals.

**Discover more resources for developing mathematical thinking at [Heinemann.com/Math](http://Heinemann.com/Math)**

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Typically the book Understanding Middle School Math: Cool Problems to Get Students Thinking and Connecting has a lot info on it. So when you check out this book you can get a lot of benefit. The book was published by the very famous author. Tom makes some research just before write this book. This specific book very easy to read you will get the point easily after reading this book.

#### **Daniel Rogers:**

Exactly why? Because this Understanding Middle School Math: Cool Problems to Get Students Thinking and Connecting is an unordinary book that the inside of the publication waiting for you to snap the idea but latter it will surprise you with the secret the item inside. Reading this book adjacent to it was fantastic author who else write the book in such amazing way makes the content within easier to understand, entertaining approach but still convey the meaning completely. So , it is good for you for not hesitating having this anymore or you going to regret it. This unique book will give you a lot of positive aspects than the other book have such as help improving your expertise and your critical thinking method. So , still want to hold up having that book? If I were you I will go to the book store hurriedly.

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