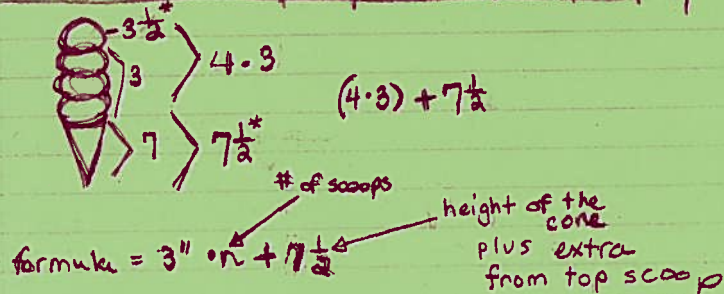


cone = 7"
 scoops = 4"
 overlapping: $4" - \frac{1}{2}" = 3\frac{1}{2}" - \frac{1}{2}" = 3"$
 top bottom
 $n = \text{number of scoops}$

	1	2	3	5	18	20	50	n
scoops	3	6	9	15	54	60	150	3·n
cone	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$
total	$10\frac{1}{2}$	$13\frac{1}{2}$	$16\frac{1}{2}$	$22\frac{1}{2}$	$61\frac{1}{2}$	$67\frac{1}{2}$	$157\frac{1}{2}$	$3n + 7\frac{1}{2}$



The formula is the height of the scoop (x) the # of scoops + the height of the cone.

We figured that w/all the overlapping of the cone & the scoops that each scoop = 3" except the top scoop so we added $\frac{1}{2}$ to height of the cone



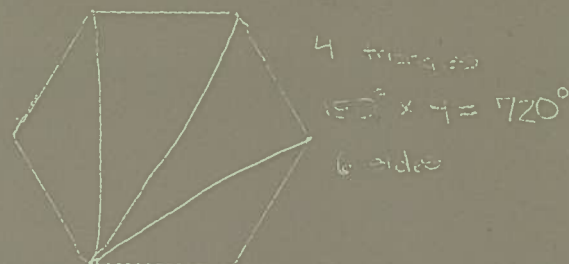
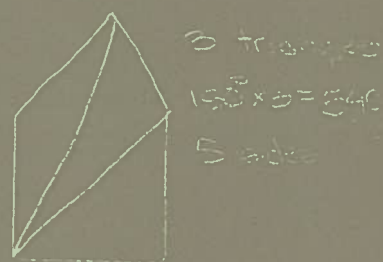
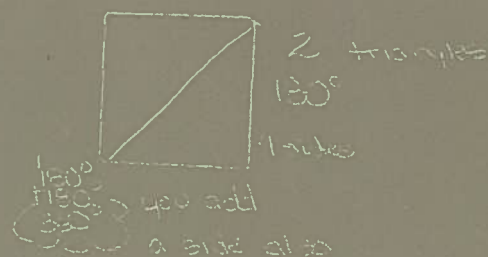
Our pattern → tables in the middle seat 2
 2 ends seat 3

Need 2 ends and 15 middles -
 17 tables

GRADES 6-8

Math and Literature

Jennifer M. Bay-Williams
 Sherri L. Martinie



INTRODUCTION BY
 MARILYN BURNS

Contents

Acknowledgments	ix
Introduction by Marilyn Burns	xi
Contents Chart	xiii

One	Lessons
-----	----------------

<i>A Drop of Water</i>	3
<i>Earthshine</i>	11
<i>Eighteen Flavors</i>	19
<i>The Greedy Triangle</i>	28
<i>Harry Potter and the Sorcerer's Stone</i>	38
<i>How Big Is a Foot?</i>	47
<i>How Much Is a Million?</i>	55
<i>Jim and the Beanstalk</i>	60
<i>One Inch Tall</i>	64
<i>Shapes</i>	70
<i>Shipwreck at the Bottom of the World</i>	75
<i>Spaghetti and Meatballs for All!</i>	80
<i>Tikki Tikki Tembo</i>	87
<i>What's Faster Than a Speeding Cheetah?</i>	95

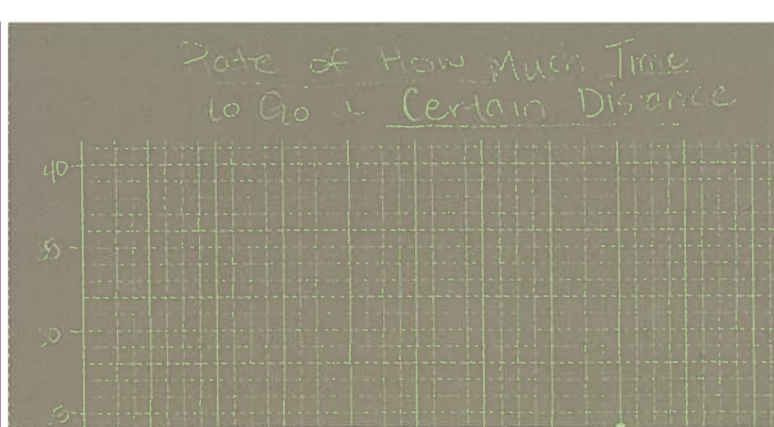
Two	Additional Ideas
-----	-------------------------

<i>Animal Farm</i>	103
<i>Anno's Hat Tricks</i>	105
<i>Factastic Book of 1,001 Lists</i>	108
<i>Far North</i>	111
<i>The 512 Ants on Sullivan Street</i>	113
<i>Holes</i>	115
<i>The King's Giraffe</i>	117

<i>The Missing Piece</i>	119
<i>My Little Sister Ate One Hare</i>	121
<i>One Hundred Hungry Ants</i>	124
<i>The Phantom Tollbooth</i>	127
<i>Roll of Thunder, Hear My Cry</i>	129
<i>The Tell-Tale Heart</i>	131
<i>The Village of Round and Square Houses</i>	134
<i>What's Smaller Than a Pygmy Shrew?</i>	137
<i>Wilma Unlimited</i>	139
 Blackline Masters	 143
<i>Earthshine Record Sheet</i>	145
<i>Eighteen Flavors Ice-Cream Shapes</i>	146
<i>The Greedy Triangle Regular Polygon Shapes</i>	148
<i>Centimeter-Squared Paper</i>	149
<i>How Much Is a Million? Instructions</i>	150
<i>How Much Is a Million? Measurement Cards</i>	151
<i>One Inch Tall Record Sheet</i>	152
<i>Shapes Worksheet</i>	153
<i>Important Dates of the Endurance Expedition</i>	154
<i>What's Faster Than a Speeding Cheetah?</i>	
<i>Record Table</i>	155
<i>Anno's Hat Tricks Statement Cards</i>	156
<i>Anno's Hat Tricks Color Cards</i>	157
<i>My Little Sister Ate One Hare Food Cards</i>	158
<i>My Little Sister Ate One Hare Record Table</i>	160
<i>Dot Paper</i>	161
<i>Millimeter-Squared Paper</i>	162
 References	 163
Index	165

Math and Literature

Jennifer M. Bay-Williams
Sherri L. Martinie



Math and Literature, Grades 6–8 is an exciting new addition to the revised and expanded Math and Literature series, bringing the joy of children's literature to the middle school mathematics classroom. Jennifer Bay-Williams and Sherri Martinie offer more than twenty lessons based on popular children's books, written in the same engaging style found in the other books in the series. Each lesson:

- uses children's literature as a springboard into activities that engage children in mathematical problem solving and reasoning;
- is included in a chart that indicates the mathematical concept the lesson covers such as number, geometry, patterns, algebra, measurement, data analysis, or probability; and
- includes detailed descriptions of classroom experiences, plus many samples of student work.

Math and Literature, Grades 6–8 allows middle school mathematics teachers to bring the same excitement to their math instruction that elementary teachers have long enjoyed. Every middle school mathematics teacher will want to own this important new book.



Jennifer M. Bay-Williams is an Assistant Professor at Kansas State University, where she teaches undergraduate and graduate courses that support standards-based instruction. A former middle and high school teacher, she is currently the editor of the "Spotlight on the Principles" department of the National Council of Teachers of Mathematics journal *Mathematics Teaching in the Middle School*.



Sherri L. Martinie has been a classroom teacher for thirteen years at the elementary, middle, and high school levels. She currently teaches at Womego High School in Womego, Kansas. She is the editor of the "Families Ask" department of the National Council of Teachers of Mathematics journal *Mathematics Teaching in the Middle School* and a recipient of the Kansas Department of Education Presidential Award for Excellence in Teaching Mathematics.