

Contents

Introduction	1
---------------------------	---

The Activity Gems

1. Reasoning about Sums of Consecutive Numbers	9
2. Squaring Off with Rational Numbers	21
3. Rates and Unit Rates.....	31
4. From Stories to Graphs and Graphs to Stories.....	41
5. Tiling Tubs and Plotting Land	51
6. Scale Factors and Measurement Relationships.....	59
7. Three-Dimensional Shapes: Cross Sections and Constructions	71
8. Transforming Shapes	79
9. Reasoning about the Pythagorean Theorem	89
10. Investigating Pick's Theorem	101
11. Dice and Coins: Empirical and Theoretical Probability.....	121
12. Histograms and Box Plots: Same Data, Different Views.....	139

Next Steps	153
-------------------------	-----

Appendix

Materials Available at more4U	157
Classroom Activity Sheets	161

References	257
-------------------------	-----