

Math and Literature for Intermediate and Secondary

Stories Worth Exploring

365 Penguins – Jean Luc Fromental
Appropriate for Grades 1-8

Mathematical Focus: **Number Sense**

Potential explorations of:

- Multiplication (associative & distributive properties)
- Factors and divisibility
- Triangular numbers, square numbers, cubic numbers
- Relationships within the calendar (days, weeks, months, years)

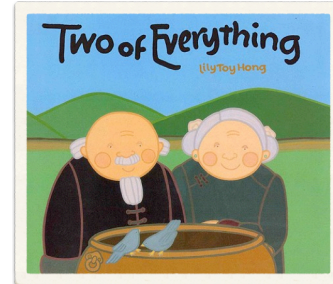


Two of Everything – Lily Toy Hong
Appropriate for Grades 1-10

Mathematical Focus: **Number Sense, Algebra**

Potential explorations of:

- Doubling and halving
- Multiplicative reasoning (from skip counting to multiples)
- Input/Output machines (relationships in tables)
- Generalizing relations (from a table to an expression)
- Describing and graphing linear relations
- Slope and rate of change

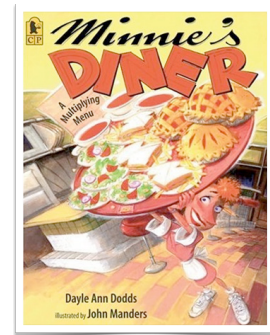


Minnie's Diner – Dayle Ann Dodds
Appropriate for Grades 2-10

Mathematical Focus: **Number Sense, Algebra**

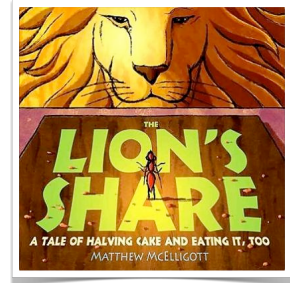
Potential explorations of:

- Doubling and repeated doubling
- Multiplicative reasoning (exploring growth)
- Powers (base 2)
- Generalizing exponential growth (2^n)



See also: **The Kings Chessboard** by David Birch

The Lion's Share – Matthew McElligott
Appropriate for Grades 4-10

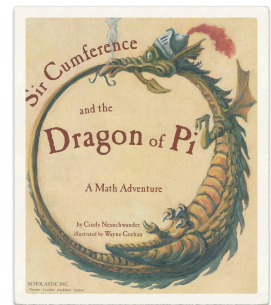


Mathematical Focus: Number Sense, Algebra

Potential explorations of:

- Halving and repeated halving
- Multiplication of fractions
- Negative exponents
- Exploring the inverse of exponential growth (2^{-n} or $1/2^n$)

Sir Cumference – Cindy Neuchwander
Appropriate for Grades 6-9



Mathematical Focus: Space and Shape, Measurement

Potential explorations of:

- Ratio and proportionality
- The derivation of π
- Relationships between circumference, radius and diameter
- Circles and circle properties
- Decimal equivalents for common fractions

See also:

Sir Cumference and the Isle of Immeter by Cindy Neuchwander (area)