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“Unreasonably
entertaining . . .
reveals how
geometric

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thinking can
allow for
everything from
fairer American
elections to
better pandemic
planning.” —The
New York Times
From the New
York Times-
bestselling
author of How
Not to Be

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Wrong—himself a
world-class
geometer—a far-
ranging
exploration of the
power of
geometry, which
turns out to help
us think better
about practically
everything. How
should a
democracy

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choose its
representatives?
How can you stop
a pandemic from
sweeping the
world? How do
computers learn
to play Go, and
why is learning
Go so much
easier for them
than learning to
read a sentence?

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Can ancient
Greek
proportions
predict the stock
market? (Sorry,
no.) What should
your kids learn in
school if they
really want to
learn to think? All
these are
questions about
geometry. For

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real. If you're like most people, geometry is a sterile and dimly remembered exercise you gladly left behind in the dust of ninth grade, along with your braces and active romantic interest in pop singers. If

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you recall any of it, it's plodding through a series of miniscule steps only to prove some fact about triangles that was obvious to you in the first place.

That's not geometry. Okay, it is geometry, but only a tiny

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part, which has
as much to do
with geometry in
all its flush
modern richness
as conjugating a
verb has to do
with a great
novel. Shape
reveals the
geometry
underneath some
of the most

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important
scientific,
political, and
philosophical
problems we
face. Geometry
asks: Where are
things? Which
things are near
each other? How
can you get from
one thing to
another thing?

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Those are important questions. The word "geometry" comes from the Greek for "measuring the world." If anything, that's an undersell. Geometry doesn't just measure the world—it explains

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it. Shape shows
us how.

From triangles,
rotations and
power laws, to
cones, curves and
the dreaded
calculus, Alex
takes you on a
journey of
mathematical
discovery with
his signature wit

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and limitless
enthusiasm. He
sifts through over
30,000 survey
submissions to
uncover the
world's favourite
number, and
meets a
mathematician
who looks for
universes in his
garage. He

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attends the World
Newspaper
Mathematical
Congress in
India, and visits
the engineer who
designed the first
roller-coaster
loop. Get hooked
on math as Alex
delves deep into
humankind's
turbulent
relationship with

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Newspaper
numbers, and
reveals how they
have shaped the
world we live in.
John Allen Paulos
cleverly
scrutinizes the
mathematical
structures of
jokes, puns,
paradoxes,
 Spoonerisms,
riddles, and other

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forms of humor,
drawing
examples from
such sources as
Rabelais,
Shakespeare,
James Beattie,
René Thom,
Lewis Carroll,
Arthur Koestler,
W. C. Fields, and
Woody Allen.
"Jokes,

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Reads The
paradoxes,
riddles, and the
art of non-
sequitur are
revealed with
great perception
and insight in
this illuminating
account of the
relationship
between humor
and mathematics.

"—Joseph
Page 16/203

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Williams, New
York Times
Newspaper

"'Leave your mind alone,' said a Thurber cartoon, and a really complete and convincing analysis of what humour is might spoil all jokes forever. This book avoids that

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Newspaper
danger. What it
does...is

describe broadly
several kinds of
mathematical
theory and apply
them to throw
sidelights on how
many kinds of
jokes

work."—New
Scientist "Many
scholars

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Newspaper
nowadays write
seriously about
the ludicrous.

Some merely
manage to be
dull. A few—like
Paulos—are
brilliant in an odd
endeavor."—Los
Angeles Times
Book Review
What are the
chances? Find

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out in this
entertaining
exploration
of probabilities
in our everyday
lives “If there is
anything you
want to know, or
remind yourself,
about
probabilities,
then look no
further than this

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Reads The
Newspaper
omprehensive,
yet wittily written
and enjoyable,
compendium of
howto apply
probability
calculations in re
al-
worldsituations.”

— Keith Devlin,
Stanford
University,
National

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Reads The
PublicRadio's
"Math Guy" and
author of The
Math Geneand
The Math Instinct
"A delightful
guide to the
sometimes count
erintuitivediscipli
ne of probability.
Olofsson points
out major ideas
here, explains

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classic puzzles
there, and
everywhere
makes free use
of witty vignettes
to instruct and
amuse.” — John
Allen Paulos,
Temple
University,
author
of *Innumeracy*
and *A*

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Mathematician
Reads the
Newspaper
“Beautifully
written, with
fascinating
examples
and tidbits of
information.
Olofsson gently
and persuasively
shows us how to
think clearly

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about the
Newspaper
uncertainty that
governs
our lives.” — John
Haigh, University
of Sussex, author
of
Taking Chances:
Winning with
Probability From
probable
improbabilities to
regular irregulari

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ties, Probabilities:
The Little
Numbers That
Rule Our
Lives investigates
the often-
surprising effects
of risk and
chance in
our everyday
lives. With
examples ranging
from WWII

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espionage to the
O.J. Simpson
trial, from bridge
to blackjack, from
Julius Caesar
to Jerry Seinfeld,
the reader is
taught how to
think straight in
a world of
randomness and
uncertainty.

Throughout the

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book, readers
learn: Why it is
not that
surprising for
someone to win
the lottery twice
How a faulty
probability
calculation forced
an innocent
woman to spend
three years in
prison How to

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place bets if you
absolutely insist
on gambling How
a newspaper
turned an opinion
poll into one of
the
greatest election
blunders in
history
Educational,
eloquent, and
entertaining,

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Probabilities:

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Numbers That
Rule Our Lives is
the ideal

companion

for anyone who
wants to obtain a
better

understanding of
the mathematics
of chance.

The Survival of a

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Information into
Knowledge
Against All Odds
The Indian Clerk
The Hidden
Mathematical
Logic Of Stories
Mathematics and
Democracy
Thinking Like
Your Editor: How

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to Write Great
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Nonfiction and
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The aim of this volume is to explain the differences between research-level mathematics and the maths taught at school. Most differences are philosophical and the

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first few chapters are
about general
aspects of
mathematical
thought.

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remarkable true story
of G. H. Hardy and
Srinivasa Ramanujan,
and populated with
such luminaries such
as D. H. Lawrence,
Bertrand Russell, and
Ludwig Wittgenstein,

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The Indian Clerk takes this extraordinary slice of history and transforms it into an emotional and spellbinding story about the fragility of human connection and our need to find order in the world. A literary masterpiece, it appeared on four bestseller lists,

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including the Los Angeles Times, and received dazzling reviews from every major publication in the country.

Can a renowned mathematician successfully outwit the stock market? Not when his biggest investment is WorldCom. In A Mathematician Plays

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Reads The
the Stock Market ,
best-selling author
John Allen Paulos
employs his
trademark stories,
vignettes, paradoxes,
and puzzles to
address every
thinking reader's
curiosity about the
market -- Is it
efficient? Is it
random? Is there
anything to technical

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analysis,
fundamental
analysis, and other
supposedly time-
tested methods of
picking stocks? How
can one quantify risk?
What are the most
common scams? Are
there any approaches
to investing that truly
outperform the major
indexes? But Paulos's
tour through the

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irrational exuberance
of market
mathematics doesn't
end there. An
unrequited (and
financially disastrous)
love affair with
WorldCom leads
Paulos to question
some cherished ideas
of personal finance.
He explains why
"data mining" is a self-
fulfilling belief, why

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"momentum investing" is nothing more than herd behavior with a lot of mathematical jargon added, why the ever-popular Elliot Wave Theory cannot be correct, and why you should take Warren Buffet's "fundamental analysis" with a grain of salt. Like Burton Malkiel's A Random

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Walk Down Wall Street, this clever and illuminating book is for anyone, investor or not, who follows the markets -- or knows someone who does.

A mathematician ' s ten-year quest to tell Fibonacci ' s story In 2000, Keith Devlin set out to research the life and legacy of the

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medieval

mathematician

Leonardo of Pisa,
popularly known as
Fibonacci, whose
book Liber abbaci, or
the “ Book of
Calculation, ”
introduced modern
arithmetic to the
Western world.
Although most
famous for the
Fibonacci

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numbers—which, it so happens, he didn't discover—Fibonacci's greatest contribution was as an expositor of mathematical ideas at a level ordinary people could understand. Yet Fibonacci was forgotten after his death, and it was not until the 1960s that

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his true

achievements were
finally recognized.

Drawing on the diary
he kept of his quest,
Devlin describes the
false starts and
disappointments, the
unexpected turns,
and the occasional
lucky breaks he
encountered in his
search. Fibonacci
helped to revive the

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West as the cradle of science, technology, and commerce, yet he vanished from the pages of history. This is Devlin ' s search to find him.

An Approachable
Guide to
Understanding Basic
Concepts
Reaching for the
Moon
A Companion to

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Undergraduate
Mathematics

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Make a Pair?

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Designing Better
Voting and Fair-
Division Procedures

A Mathematician
Plays the Market

***Essential Black
History Reading***

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Newspaper

*The first-ever
picture book
biography of
Carter G.*

*Woodson, the
Father of Black
History Month
Carter G.*

*Woodson Book
Award (Honor
Book), NCSS
Parents' Choice
Silver Honor*

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Award Chicago
Newspaper
Public Library
Best of the
Best Book Top
10 Books for
Kids -New York
Public Library
Best Children's
Books of the
Year (Starred)
-Bank Street
College of
Education "An

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*Reads The
Newspaper*
important and
inspiring tale
well told."

—Kirkus Reviews

"Carter G.
Woodson didn't
just read
history. He
changed it." As
the father of
Black History
Month, he spent
his life

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*introducing
Newspaper
others to the
history of his
people. Carter
G. Woodson was
born to two
formerly
enslaved people
ten years after
the end of the
Civil War.
Though his
father could*

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*not read, he
believed in
being an
informed
citizen, so
Carter read the
newspaper to
him every day.
As a teenager,
Carter went to
work in the
coal mines, and
there he met*

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Newspaper

*Oliver Jones,
who did
something
important: he
asked Carter
not only to
read to him and
the other
miners, but
also research
and find more
information on
the subjects*

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Reads The
that interested
them. "My

interest in
penetrating the
past of my
people was
deepened, "
Carter wrote.

His journey
would take him
many more
years,
traveling

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Reads The
around the
Newspaper
world and

transforming
the way people
thought about
history. From
an award-
winning team of
author Deborah
Hopkinson and
illustrator Don
Tate, this
first-ever

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Reads The
Newspaper
*picture book
biography of*

Carter G.

Woodson

*emphasizes the
importance of
pursuing
curiosity and
encouraging a
hunger for
knowledge of
stories and
histories that*

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Reads The
Newspaper

*have not been
told.*

*Illustrations
also feature
brief
biological
sketches of
important
figures from
Black history.
Analyzes the
art of reading
and suggests*

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Newspaper

*ways to
approach
literary works,
offering
techniques for
reading in
specific
literary genres
ranging from
fiction,
poetry, and
plays to
scientific and*

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Reads The
*philosophical
Newspaper
works.*

*Darwin's
greatest
accomplishment
was to show how
life might be
explained as
the result of
natural
selection. But
does Darwin's
theory mean*

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Newspaper

*that life was
unintended?*

William A.

*Dembski argues
that it does
not. In this
book Dembski
extends his
theory of
intelligent
design.*

*Building on his
earlier work in*

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Reads The
*The Design
Inference*

(Cambridge,
1998), he
defends that
life must be
the product of
intelligent
design. Critics
of Dembski's
work have
argued that
evolutionary

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Newspaper*
algorithms show
that life can
be explained
apart from
intelligence.
But by
employing
powerful recent
results from
the No Free
Lunch Theory,
Dembski
addresses and

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*decisively
refutes such
claims. As the
leading
proponent of
intelligent
design, Dembski
reveals a
designer
capable of
originating the
complexity and
specificity*

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*found
throughout the
cosmos.*

*Scientists and
theologians
alike will find
this book of
interest as it
brings the
question of
creation firmly
into the realm
of scientific*

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debate.

The political
regime of
global
capitalism
reduces the
world to an
endless network
of numbers
within numbers,
but how many of
us really
understand what

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Newspaper

*numbers are?
Without such an
understanding,
how can we
challenge the
regime of
number? In
Number and
Numbers Alain
Badiou offers
an
philosophically
penetrating*

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*account with a
powerful
political
subtext of the
attempts that
have been made
over the last
century to
define the
special status
of number.*

*Badiou argues
that number*

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Newspaper

*cannot be
defined by the
multiform
calculative
uses to which
numbers are
put, nor is it
exhausted by
the various
species
described by
number theory.
Drawing on the*

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*mathematical
theory of
surreal
numbers, he
develops a
unified theory
of Number as a
particular form
of being, an
infinite
expanse to
which our
access remains*

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*limited. This
Newspaper
understanding
of Number as
being harbours
important
philosophical
truths about
the structure
of the world in
which we live.
In Badiou's
view, only by
rigorously*

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*thinking
through Number
can philosophy
offer us some
hope of
breaking
through the
dense and
apparently
impenetrable
capitalist
fabric of
numerical*

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*relations. For
this will
finally allow
us to point to
that which
cannot be
numbered: the
possibility of
an event that
would deliver
us from our
unthinking
subordination*

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of number.

Mathematical

Elegance

The Hidden

Geometry of

Information,

Biology,

Strategy,

Democracy, and

Everything Else

The

Autobiography

of NASA

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Katherine**

Johnson

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the Arguments
for God Just
Don't Add Up
Irreligion
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Guide to
Intelligent
Reading**

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Truth with
Statistics*

“Required
reading for
anyone who’s
interested in
the truth.”

—Robert Reich

In a post-
Trumpian world
where COVID

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rates soar and
Newspaper
Americans wage
near-civil war
about election
results,
Deborah
Stone's
Counting
promises to
transform how
we think about
numbers.

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Contrary to
Newspaper
what you

learned in
kindergarten,
counting is
more art than
arithmetic. In
fact, numbers
are just as
much creatures
of the human
imagination as

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Newspaper

poetry and
painting; the
simplest tally
starts with
judgments
about what
counts. In a
nation whose
Constitution
originally
counted a
slave as three-

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fifths of a
Newspaper
person and

where

algorithms dis
proportionatel
y consign

Black

Americans to
prison, it is
now more

important than
ever to

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Newspaper
understand how
numbers can be
both weapons
of the
powerful and
tools of
resistance.
With her
“signature
brilliance”
(Robert
Kuttner),

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eminent
Newspaper

political
scientist

Deborah Stone
delivers a “mi
ld-altering”
work (Jacob
Hacker) that
shows “how
being in
thrall to
numbers is

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misguided and
Newspaper”
dangerous”

(New York
Times Book
Review) .

This book is
about the
lottery known
as lotto,
which has one
of the longest
odds for the

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big one. Four
main problems
are solved. -

Learn

principles of
chance so you
can be in the
game but lose
less - Learn
that there is
no strategy
but improve

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the frequency
of small wins
- Use the
object called
'spectrum' to
compute
combined
chance of many
blocks of
numbers -
Teach those
who

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erroneously
think that the
utility-to-
risk ratio is
too small in
lotteries

While the main
text is about
odds and ways
of playing and
is easy
reading as a

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daily
Newspaper,
the
large appendix
explains the
'why' to the
mathematically
inclined. The
appendix is
also a source
of probability
problems for
high school

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students.
Implicit in
the chapters
on 'lotto
designs' is a
countable
infinity of
Ph.D. research
problems. The
vast subject
of probability
began

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centuries ago
Newspaper
with a dice
problem solved
by great mathe
maticians.
Here now is
guidance on
lotteries,
from a
mathematician!
Here is help
in your play

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against the
Newspaper
long odds in
the most
popular
lottery so it
will not be a
"lootery" on
you!
What two
things could
be more
different than

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numbers and
Newspaper
stories?

Numbers are
abstract,
certain, and
eternal, but
to most of us
somewhat dry
and bloodless.
Good stories
are full of
life: they

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engage our
emotions and
have subtlety
and nuance,
but they lack
rigor and the
truths they
tell are
elusive and
subject to
debate. As
ways of

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understanding
Newspaper
the world
around us,
numbers and
stories seem
almost
completely
incompatible.
Once Upon a
Number shows
that stories
and numbers

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aren't as
different as
you might
imagine, and
in fact they
have
surprising and
fascinating
connections.
The concepts
of logic and
probability

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both grew out
of intuitive
ideas about
how certain
situations
would play
out. Now,
logicians are
inventing ways
to deal with
real world
situations by

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mathematical
Newspaper
means -- by

acknowledging,
for instance,

that items
that are

mathematically
interchangeabl
e may not be i
nterchangeable
in a story.

And complexity

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theory looks
Newspaper
at both number
strings and
narrative
strings in
remarkably
similar terms.
Throughout,
renowned
author John
Paulos mixes
numbers and

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narratives in
Newspaper
his own
delightful
style. Along
with lucid
accounts of
cutting-edge
information
theory we get
hilarious
anecdotes and
jokes;

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instructions
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for running a
truly
impressive
pyramid scam;
a freewheeling
conversation
between
Groucho Marx
and Bertrand
Russell (while
they're stuck

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in an elevator
Newspaper
together) ;
explanations
of why the
statistical
evidence
against OJ
Simpson was
overwhelming
beyond doubt
and how the
Unabomber's

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signs of
mathematical
training; and
dozens of
other treats.
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another winner
from America's
favorite
mathematician.
This text is

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intended for
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an honors
calculus
course or for
an
introduction
to analysis.
Involving
rigorous
analysis,
computational
dexterity, and

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applications,
it is ideal
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undergraduate
majors. This
third edition
includes
corrections as
well as some
additional
material. Some

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is defined as
the area under

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the graph,
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while the area
is defined for
every subset
of the plane;
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heavy emphasis
on
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quadratic
formula to the
formula for
the derivative
of the zeta
function at
zero; There
are
applications
from many
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analysis,

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e.g.,

convexity, the
Cantor set,
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Bessel and
gamma

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functions, and
many more;

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transcendental
ly presented
material, such
as infinite
products, the
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series, and
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equation, is
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*inspiring
autobiography of
NASA*

*mathematician
Katherine Johnson,
who helped launch
Apollo 11. As a
young girl,
Katherine Johnson
showed an
exceptional aptitude
for math. In school
she quickly skipped*

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ahead several grades and was soon studying complex equations with the support of a professor who saw great promise in her. But ability and opportunity did not always go hand in hand. As an African American and a girl growing up in an era

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of brutal racism and sexism, Katherine faced daily challenges. Still, she lived her life with her father's words in mind: "You are no better than anyone else, and nobody else is better than you." In the early 1950s, Katherine was thrilled to join

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the organization that would become NASA. She worked on many of NASA's biggest projects including the Apollo 11 mission that landed the first men on the moon.

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rationality become
futile? In *The Art of
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and alogic
together to
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socks make a
pair? The answer
is not always
two. And behind
this question***

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maths that can
be surprising,
amusing and even
beautiful. Using
playing cards, a
newspaper, the
back of an
envelope, a
Sudoku, some
pennies and of
course a pair of
socks, Rob
Eastaway shows*

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one will change
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Casti serves as
curator to a
brilliant
collection of
20th-century
mathematical*

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*theories,
leading us on a
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journey of
discovery and
insight. Probing
the frontiers of
modern
mathematics,
Casti examines
the origins of
some of the most
important
findings of this*

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*century. This is
a tale of
mystery and
logic, elegance
and reason; it
is the story of
five monumental
mathematical
breakthroughs
and how they
shape our lives.
All those
intrigued by the
mathematical*

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*process,
nonacademics and
professionals
alike, will find
this an
enlightening,
eye-opening, and
entertaining
work. High
school algebra
or geometry -
and enthusiasm -
are the only
prerequisites.*

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*dazzling array
of real-world
problems it has
helped solve -
how to calculate
the shape of
space, optimize
investment
returns, even
chart the course
of the
development of
organisms. Along
the way, we meet*

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***the leading
thinkers of the
day: John von
Neumann, L. E.
J. Brouwer,
Marston Morse,
and Alan Turing,
among others.
And we come to
understand the
combination of
circumstances
that led each to
such***

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*revolutionary
discoveries as
the Minimax
Theorem, which
spawned the
exciting field
of game theory,
and the Simplex
Method, which
underpins the
powerful tools
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theory.*

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Wars I and II.
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*oscillates
stylistically
from chapter to
chapter—at times
a novel, fable,
historical
research, or a
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and unlocking
codes,
culminating in a
captivating,
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*Michèle Audin is
the author of
several works of
mathematical
theory and
history and also
published a work
on her
anticolonialist
father's
torture,
disappearance,
and execution by
the French*

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presents an
entertaining look
at new
mathematically
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four card
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starting with
simple
applications of a
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principle and
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more complex
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mathematics is its
elegance; the way it all
fits together.*

*Unfortunately, its
beauty often eludes the
vast majority of people
who are intimidated by
fear of the difficulty
of numbers.*

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the discipline, to
explore some of the
unexpected pleasures
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*everyday tasks of
research, teaching, and
administration." "In
short, this is a survival
manual for the
professional
mathematician - both
in academics and in
industry and
government agencies. It
is a sequel to the
author's A*

Mathematician's
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Survival
Guide."--BOOK

JACKET.

Voters today often desert a preferred candidate for a more viable second choice to avoid wasting their vote. Likewise, parties to a dispute often find themselves unable to agree on a fair division of contested goods. In

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*Mathematics and
Democracy, Steven
Brams, a leading
authority in the use of
mathematics to design
decision-making
processes, shows how
social-choice and game
theory could make
political and social
institutions more
democratic. Using
mathematical analysis,*

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he develops rigorous new procedures that enable voters to better express themselves and that allow disputants to divide goods more fairly. One of the procedures that Brams proposes is "approval voting," which allows voters to vote for as many candidates as they like or consider

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*over divisible and
Newspaper
indivisible goods.*