



Fall Fun  
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Campbell Elementary

5<sup>th</sup> Grade

Get ready to discover mathematics all around you this fall!

Just like reading, regular practice with problem solving, computation, and math facts will maintain and strengthen the mathematic gains you have made through the school year.

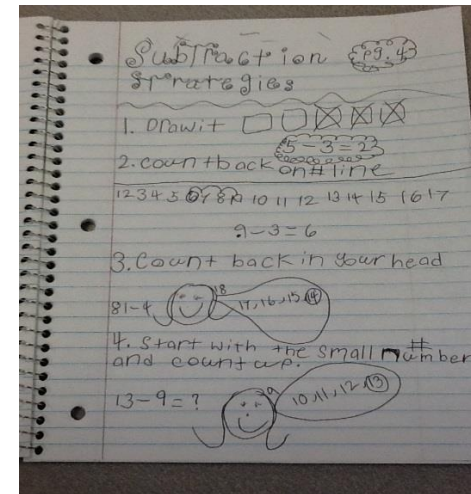
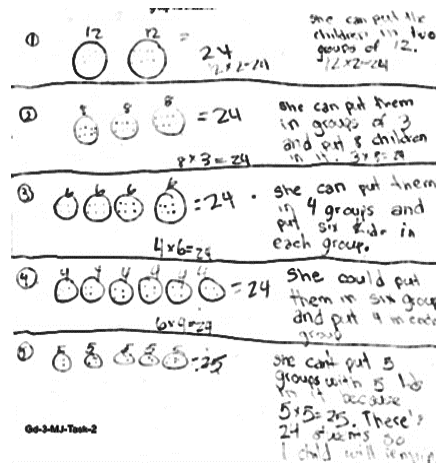
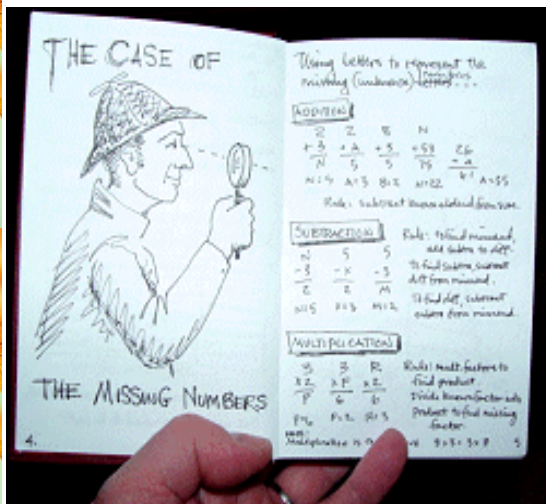
Enjoy these activities to explore problem solving at home. The goal is for you to have fun thinking and working collaboratively to communicate mathematical ideas.

While you are working ask how the solution was found and why a particular strategy helped you to solve the problem.

**Math Journals** are an excellent tool for helping children record their perceptions about math and the strategies they employ to arrive at a solution. A math journal is a book in which children record their math work and thinking. At home a math journal can be used to:

- Record the solutions to math problems or projects, along with the strategy and thought processes used to arrive at the solution
  - For instance a math problem or project may require some time (perhaps days) to arrive at a solution and a math journal helps children to reflect on their thought processes as well as strategies that did and did not work.
- Write about learning: When children students are asked to reflect on their math learning. For example, children may be asked to write about "what you already know about ....." before beginning an activity or "think about what you did today, what you learned, and any questions you have", or "the three most important things you learned from this activity." These opportunities to journal provide children with metacognitive occasions to think about their thinking or consider points that were not clear. As well as to return at a later time to clarify their thinking.

By dating entries the journal provides a chronological record of the development of a child's mathematical thinking throughout the year.



## Math Literature Connection

Educational research has shown that students taught mathematics via connections to children's literature become better critical thinkers and problem solvers, and become better able to connect mathematical ideas to personal and real-life experiences. Check out these delightful stories that combine entertainment with Math.

### Cool Math Books to Read:

**Counting on Frank** by Rod Clement

**A Grain of Rice** by Helena Clare Pittman

**Sideways Arithmetic from Wayside School** by Louis Sachar

**Divide and Ride** by Stuart Murphy

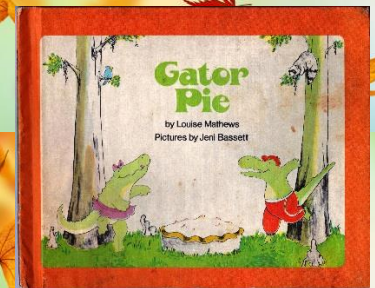
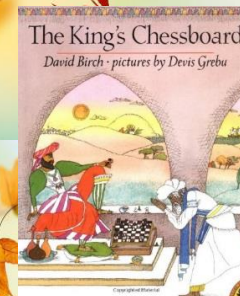
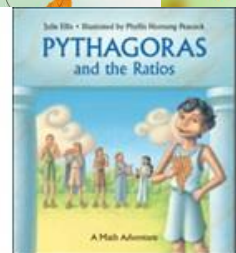
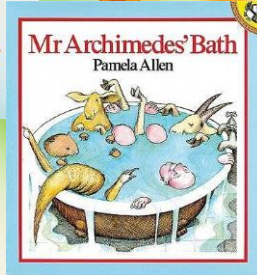
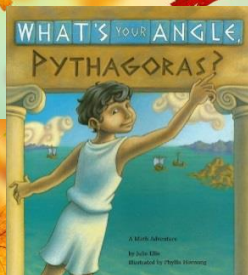
**Lemonade for Sale** by Stuart Murphy

Good Resources for connecting literature and Math Check out ALL of the books listed:

<http://libguides.bgsu.edu/content.php?pid=46818&sid=344964>

Great resource from Universtiy of Chicago, Loads of Books on this list, note the Units and Lessons do not correspond to those in Texas

<http://everydaymath.uchicago.edu/teachers/5th-grade/literature-list/>



## Games To Play

### 1. Multiplication Compare

Remove all the face cards from a deck of cards. The ace will equal 1. Deal out the cards equally between 2 to 3 players. Each player turns over 2 cards and multiplies the numbers together. The person with the highest product wins all the cards.

#### Challenge:

Each person gets 4 cards and multiplies a 2-digit number by a 2-digit number.

### 2. Close to 1000

Deal 8 cards to each player. Use any 6 cards to make two 3-digit numbers. Try to make the sum close to or exactly 1000.

For example

You combine 148 and 853 to make 1001. Your score is 1 because the difference between 1001 and 1000 is 1.

The lowest score after five rounds wins!

### 3. Simplify It!: A Fraction Card Game

Race to simplify fractions. All you need to play is a deck of cards, paper and pencils. Shuffle the cards, and you're ready to get started. You'll work with your partner to create fractions. Find the simplest form first to earn cards and win the game.

Terms to Know:

**numerator:** the number above the line in a fraction; indicates the number of parts being considered **denominator:** the number below the line in a fraction; indicates the total number of parts in the whole **simplest form:** the form of a fraction in which the numbers used are as small as possible; found by dividing both the numerator and denominator by the same number

What You Need: Deck of playing cards 1 game board (a piece of paper with a horizontal line drawn across the center, to represent a fraction bar)  
Scratch paper and pencils (optional)

What You Do:

1. Remove all of the face cards from the deck, then shuffle it.
2. Distribute the deck evenly between two players. Players should place their mini-decks face down in front of themselves.
3. Play begins by having the players simultaneously turn over two cards each and place them on the game board. Each player should place one card above the fraction bar, to represent the numerator, and one card below the fraction bar, to represent the denominator. There should be two cards above and two cards below - four cards total.
4. The first player to correctly simplify the fraction shown by the cards wins all four cards. If a tie results, split the cards evenly.
5. Play continues until one player has accumulated all of the cards or time is up. The player with the most cards wins.

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**Other Games to Play:**

**Monopoly, Othello, Battleship, Connect Four, Mastermind, Mancala, Legos, K'Nex, Simon, Yahtzee, Rummikub, Stratego, Check out the PDF: [Making Math More Fun Board Games](#) that contains a variety of board games for different grade levels.**

## **Fun Websites to Explore All Year Long:**

**Yummy and FUN!! This website is designed to help kids see the connection between Math and real-life, such as – How large a TV should I buy? Which is the best deal on Halloween candy? At what point do I really gain rewards when I pay to join a Rewards Program?**

<http://www.yummymath.com/>

<http://www.math-play.com/Factors-Millionaire/Factors-Millionaire.html>

<http://www.funbrain.com>

<http://www.setgame.com>

<http://www.aplusmath.com>

<http://www.multiplication.com>

<http://www.coolmath4kids.com>

<http://www.mathplayground.com>

<http://www.illuminations.nctm.org> Click on **ACTIVITIES**.  
Click on **3-5** and press **SEARCH**

## **Brain Teasers, Puzzles, and Riddles**

[http://www.eduplace.com/kids/mw/bt/bt\\_5.html](http://www.eduplace.com/kids/mw/bt/bt_5.html)

Comes complete with Q/A

<http://school.discoveryeducation.com/brainboosters/>

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<http://brainden.com/puzzles-riddles.htm>

<http://www.brainbashers.com/>

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