



Summer Math Activities

Multiplication Games:



Fact fluency is one of the first casualties of the long summer vacation.

Multiplication War: Use playing cards. Throw down two cards. The person who finds the product of the two cards first keeps the pair.

Keep those math facts fluent with fun **on-line practice!**

- Multiplication.com has some great games to play by alone or against other kids online! Brown Student favorites include [Penguin Jump](#) and [Multiplication Grand Prix](#)
- You can print out Mad Minutes to see how much you know at [Super Teacher Worksheets](#), and you can find worksheets covering fractions, decimals, and more at [Education.com](#).



Other Online Games:

[Academic Skill Builders](#) is a great resource to refresh all math operation areas. Play arcade games to review basic operations, fractions, decimals, and working with money!

[Factors and Multiples Jeopardy](#): Remember the difference between factors and multiples with this fun on-line game!



Go to the [Math Playground](#) to practice skills like measuring angles, working with fractions, and creating congruent or similar shapes using transformations

For fun logic games, try out [Math Maven's Mysteries!](#)

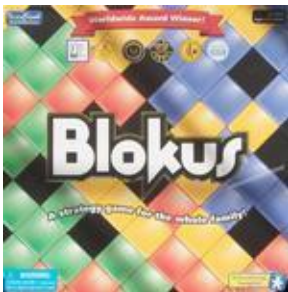
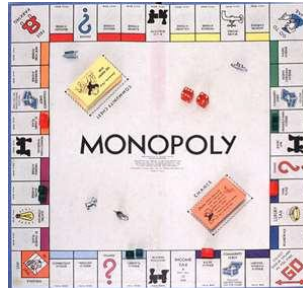
[Math Hunt](#): fun with math in science, social studies, and finance.

Board Games

There are great games you can play to pass a rainy day... and practice your math, too! You probably already have many of them at home. Here are just a few that we like.

Basic Operations:

- *Monopoly*
- *Life*
- *Payday*
- *S'Math*
- *Tripoly*



Patterns and Geometry:

- *Sequence*
- *Blokus*
- *Geoshapes*
- *Quirkle*

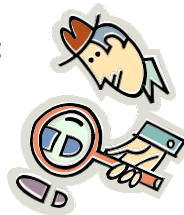


Coordinate Graphing:

- *Battleship*

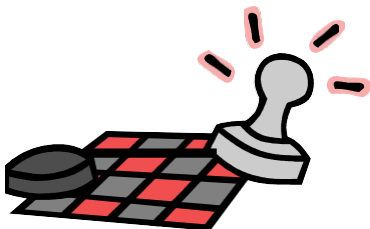
Logical Reasoning:

- *Clue*
- *Stratego*
- *SuDoKu*



Probability:

- *Deal or No Deal?*



Strategy Games:

- *Mancala*
- *Othello*
- *Connect 4*
- *Chess and Checkers*

Other real-life math activities:

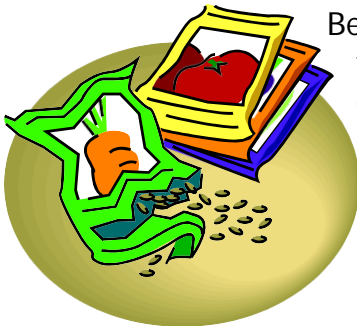
Take a Vacation!

Before you take off on that family trip, help your parents and get in on the planning! Here are a few examples of where math can be used when taking that family trip:

- Use an atlas and figure out how many miles you'll be driving – the scale of miles is a great example of proportion and measurement used in real life!
- What's your car's fuel efficiency? Add to find out the total cost to fill up the tank throughout your trip; divide to calculate the miles driven per gallon of gas; multiply to determine the cost of a fill-up based on your expected travel distance... is it time to purchase a hybrid vehicle?
- How fast did you get there? Use the car's trip odometer to find out how many miles you've driven, and determine your average speed.



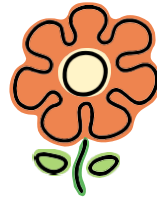
Gardens of Eating... and Math!



Besides providing a great source of delicious summer vegetables and fresh flowers, gardens grow great opportunities to show practical applications for math.

- How big is that garden? How much fencing is needed to keep out the deer? How much fertilizer do you need to keep the garden (or yard) growing?

- How much mulch do you need to order if you want to put it down 3" thick in your flower beds?
- What is the weight of that prize-winning tomato or pumpkin? How many peppers are on the pepper plant? If you need to keep your bean plants 3 inches apart, how many plants will grow on a 12 foot row? How many seeds should you plant?
- Go to the supermarket or farmer's market and find out the cost of fresh vegetables you can grow at home. How much money will you save if you grow it yourself?



In the kitchen – cook up some math!

- Measure all of the ingredients (especially the liquids in the glass measuring cups).
- Challenge yourself to double the recipe or cut the recipe in half – fractions are everywhere!



<u>Title</u>	<u>Author</u>
<i>The I Hate Mathematics! Book</i>	Burns, Marilyn
<i>The Phantom Tollbooth</i>	Juster, Norton
<i>Janice Van Cleave's Math for Every Kid: Easy Activities That Make Learning Math Fun</i>	Van Cleave, Janice Pratt
<i>G Is for Googol: A Math Alphabet Book</i>	Schwartz, David M.
<i>Janice Van Cleave's Geometry for Every Kid: Easy Activities That Make Learning Geometry Fun</i>	Van Cleave, Janice Pratt
<i>Math Curse</i>	Scieszka, Jon
<i>Brown Paper School Book: Math for Smarty Pants</i>	Burns, Marilyn
<i>This Book Is about Time</i>	Burns, Marilyn
<i>Math for Kids and Other People, Too!</i>	Pappas, Theoni

There are many other ways to use math in real life over the summer. These are just a few suggestions. Feel free to make up your own ideas! Have a great summer... and don't forget – math is everywhere!