Summer Math Ideas for Incoming 4th Graders

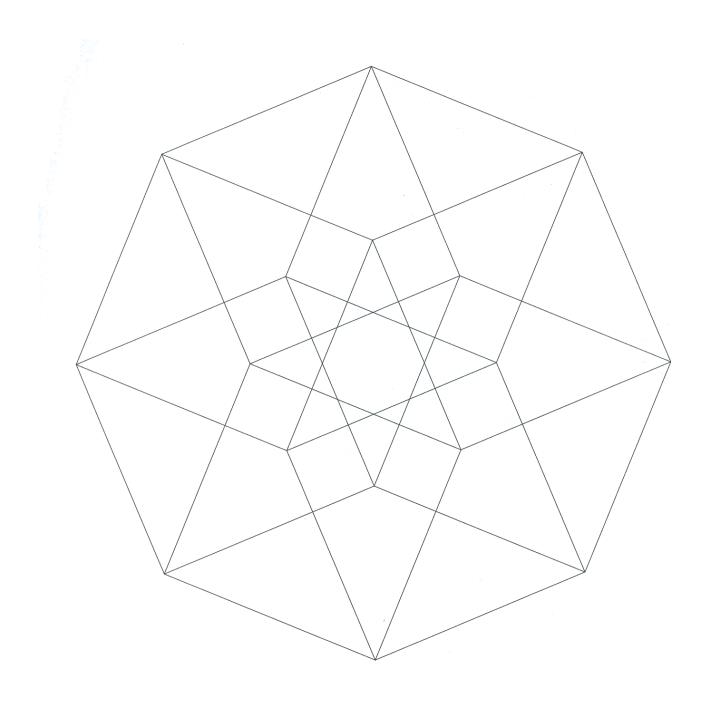
Congratulations on a wonderful year of math!

Here are some ideas to help you continue having fun with math and growing as a math thinker even in the summer. Try them out with your parents, friends and siblings! Exploring ideas is always more fun when you do it together. (If you do some of these activities, record them on your Alternate Summer Math Calendar.)

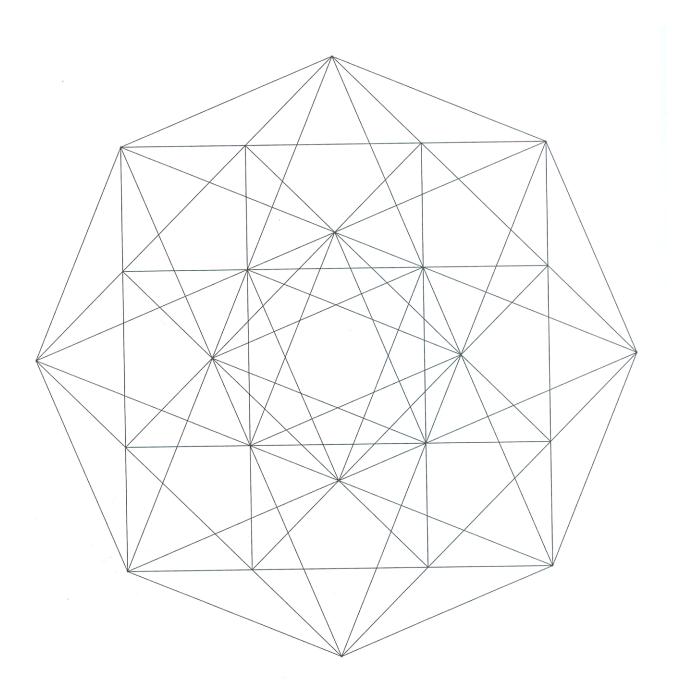
- Notice numbers, patterns, sizes and shapes in the world & ask questions about them
 - Challenge each other with questions like: How many grandmas tall is that tree?
 What day will we be halfway through the summer? Is Harvard Square really square?
 How many m&m's will you eat in a year?
- Explore math and art with coloring
 - Color one of the attached patterns for Ms. Hansel and bring it back to post on a Math Art wall at the beginning of the year.
 - You can find more fabulous math coloring pages in books like *Patterns of the Universe* and *Visions of the Universe* by Alex Bellos & Edmund Harris or 1 to 100 Cubes and 1 to 100 Circles by Mark Gonyea.
- Play board games & card games
 - Choose fun, family games that aren't pure chance, but instead involve choices and some strategic thinking about scoring. (Play together & discuss strategy!)
 - o Card games: Sleeping Queens, Monster Café, Coloretto, 6 Nimmt, Kodama, Set
 - o Board games: Quirkle, Blokus, Machi Koro, Settlers of Catan, Forbidden Island
- Check out the daily math fun on Bedtime Math
 - o http://bedtimemath.org
 - o A fascinating story each day with a related math problem for little and big kids.
 - o Perfect for promoting some cool family math discussion each day!
- Play some fun Mathy Game Apps
 - o Look for engaging games that go beyond just fact practice.
 - o 2048 (doubling, spatial thinking)
 - Kakooma (addition puzzles)
 - o Math Doodles (several games covering many number types & skills)
 - Wings (multiplication adventure)
 - Wuzzit Trouble (multiples, problem solving)

Have some fun with math this summer! - Ms. Hansel

<u>Hypercube</u>



<u>Octaplex</u>

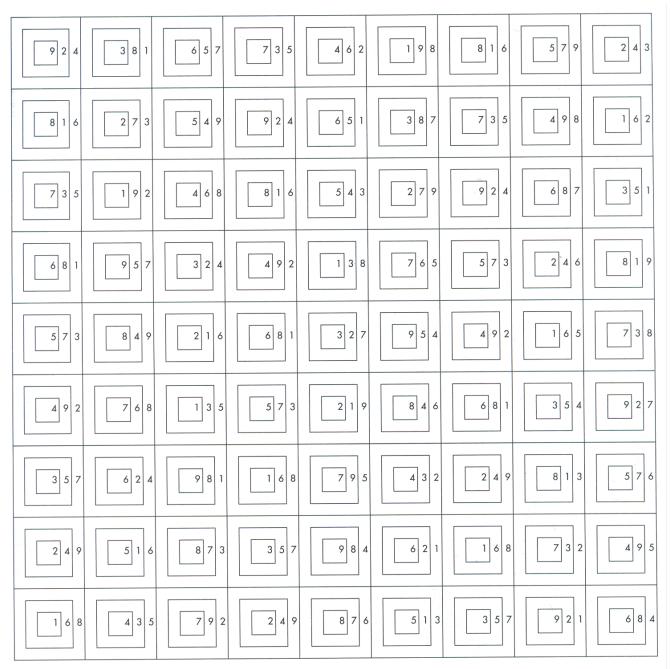


Megadoku

2	1	3	7	13],]	12	6	5	10	14	9	8	15	4
5	4	6	10	1	14	15	9	8	13	2	12	11	3	7
1	3	2	9	15	10	11	5	4	12	13	8	7	14	6
11	10	12	1	7	5	6	15	14	4	8	3	2	9	13
6	5	4	11	2	15	13	7	9	14	3	10	12	1	8
9	8	7	14	5	3	1	10	12	2	. 6	13	15	4	11
10	12	11	3	9	4	5	14	13	6	7	2	1	8	15
3	2	1	- 8	14	12	10	4	6	11	15	7	9	13	5
13	15	14	, , 6	12	7	8	2	1	9	10	5	4	1,1	3
12	11	10	2	8	6	4	13	15	5	9	1	3	7	14
14	13	15	4	10	8	9	3	2	7	11	6	15	12	1
4	6	5	12	3	13	14	8	7	15	1,	11	10	2,	9
7	9	8	15	6	1	2]]	10	3	4	14	13	5	12
15	14	13	5	11	9	7]	3	8	12	4	6	10	2
8	7	9	13	4	2	3	12]]	-1	5	15	14	6	10

Megadoku: Choose a different colour for each number and fill in the corresponding squares

Tridoku



Tridoku: Choose a different colour for each number and fill in the corresponding squares