

Read and Play with Math

Data Analysis

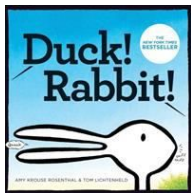


Math skills are essential for kids to be successful in school and life.

Data Analysis is one of the nine Big Ideas put forth by Erikson Institute's Early Math Collaborative that young kids need to learn. We are featuring activity sheets for all nine Big Ideas this summer. Here is [Erikson's website](#) for more great math activities and information.

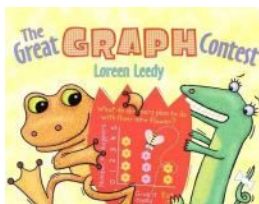
We collect **data** to answer questions that might not be obvious right away. With that **data** we can create graphs and charts to figure out answers. Even little ones can create and understand simple charts and graphs.

Read and Talk



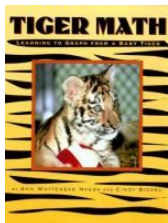
Duck! Rabbit! By Amy Krouse Rosenthal (Youth Picture Books ROS)

A clever take on the age-old optical illusion: Is it a duck or a rabbit? Depends on how you look at it! Take a poll among your family. Duck or rabbit? Who wins?



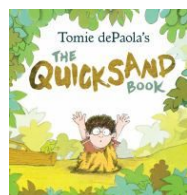
The Great Graph Contest. By Loreen Leedy (Youth Picture Book LEE)

Gonk and Chester, two amphibian friends, hold a contest to see who can make better graphs. Graphs can be made from many things. Next time you're outside, collect some rocks. Make a line for big or small, rough or smooth, gray or brown, etc.



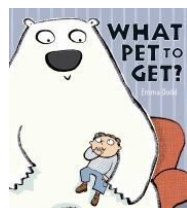
Tiger Math. By Ann Whitehead Nagda (Youth Easy Nonfiction 511.5 N)

This book describes the growth of an orphan Siberian tiger cub in words and graphs. Maybe you still have records of your child's weight as a baby. Can you make a graph just like they did for the baby tiger?



Tomie DePaola's *The Quicksand Book* (Youth Picture Book DEP)

When Jungle Girl falls into some quicksand and starts slowly sinking, Jungle Boy arrives quickly--and tells her how quicksand is formed, what it is made of, and how to get out of it, demonstrating with charts and graphs.



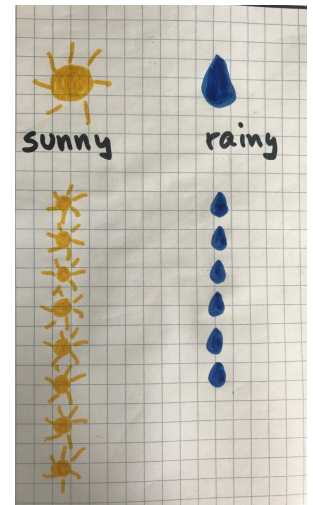
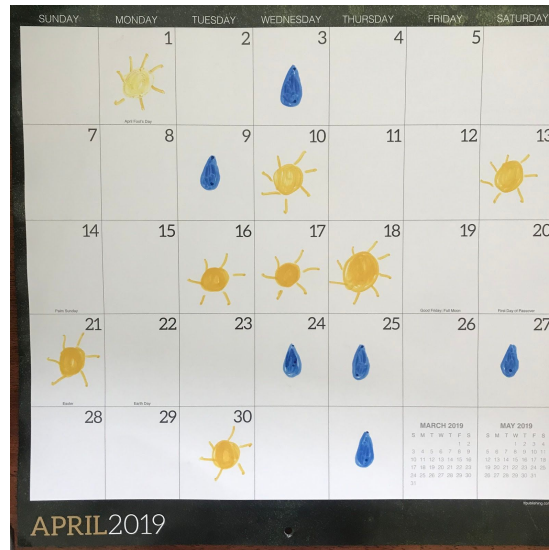
What Pet to Get? By Emma Dodd (Youth Picture Books DOD)

Jack's mother agrees that he may have a pet, but when he suggests everything from an elephant to a tyrannosaurus rex, she must explain why each would be less than ideal. What pet would you like? What would make it a good pet? What would not? Find out which pet has the most good qualities.

Play

Data analysis sounds complicated, but practicing it with your preschooler is fun and simple. Try these activities with your child.

Did we have more sunny or rainy days? It's not that easy to tell on the calendar, but when we make a simple graph, we see that there were more sunny days.



Let's make a pie chart comparing the number of crayons of different colors. The pie chart illustrates that half of all the crayons are green.



- 10 crayons total**
- 2 yellow (2 slices of pie)
- 2 purple (2 slices of pie)
- 1 red (1 slice of pie)
- 5 green (5 slices of pie)

