



Fourth Grade Summer Math

Suggested Activities to practice mathematics with your child this summer.

Be playful in your approach and most of all...have fun with math!

- ⇒ Talk about the place value words; ones, tens, hundreds, thousands, ten thousands, and hundred thousands. Create numbers and tell how much each digit represents.
- ⇒ Compare large numbers using less than and greater than. Compare the scores from a video game. Which player has the most? How do you know?
- ⇒ Practice the basic facts for addition, subtraction, multiplication, and division. Use homemade flash cards. Practice simple multiplication and division problems. Make up story problems involving multiplication and division.
- ⇒ Make up and solve problems using addition and subtraction within 1,000,000.
- ⇒ Multiply a whole number of up to 4 digits by a one-digit number. For example: $3542 \times 5 =$
- ⇒ Division problems should be up to four-digits divided by one-digit. For example: $7 \overline{)161}$ Talk about whether there is a remainder and what the remainder means.
- ⇒ Play games where coordinate grids are used...like Battleship. Look at a map and point out that it is laid out in sections like a coordinate grid so that you can easily locate a place on the map.
- ⇒ Practice making number patterns and find the next number in the pattern. For example in the pattern 2, 4, 6, 8, what number comes next?
- ⇒ Use fractions and decimals to describe things in your home. Reading a ruler is a great way to understand the relative size of fractions. Rulers and tape measures are like number lines.
- ⇒ Practice reading and writing decimal numbers to hundredths.
- ⇒ Your child needs to see pictures to show that fractions and decimals are less than one. Compare decimals and fractions to money. A penny is a part of a dollar. It is one hundredth of a dollar or $1/100$. A slice of pizza is less than the whole. If there are 8 slices, one of them is $1/8$ (one eighth). Find pictures in magazines that represent fractions or decimals.
- ⇒ Add and subtract fractions with the same denominator and with different denominators.

Websites:

<http://nces.ed.gov/nceskids/createagraph/default.aspx>
<http://www.funbrain.com/cgi-bin/co.cgi?A1=s&A2=0>
<http://www.funbrain.com/tens/index.html>
http://www.aaamath.com/B/g6_41ax2.htm (find place value activity)
http://www.multiplication.com/interactive_games.htm
<http://www.coolmath4kids.com/0-geometry-math-art.html>
<http://www.mrnussbaum.com/division.htm>
<http://www.mathsisfun.com/timestable.html>
<http://www.coolmath.com/prealgebra/01-fractions/fractions-10-adding-with-like-denominators-01.htm>

Books to read:

A Fly on the Ceiling (Step-Into-Reading, Step 4) by Julie Glass and Richard Walz
Do You Wanna Bet?: Your Chance to Find Out About Probability by Cushman
Mummy Math: An Adventure in Geometry by Cindy Neuschwander
A Star in My Orange: Looking for Nature's Shapes by Dana Meachen Rau

For more information please go to <http://www.esmath.knoxschools.org>

<http://www.coolmath.com/prealgebra/01-fractions/fractions-11-subtracting-with-like-denominators-01.htm>
<http://www.coolmath.com/prealgebra/01-fractions/fractions-12-adding-subtracting-different-denominators-01.htm>
http://nlvm.usu.edu/en/nav/frames_asid_264_g_2_t_1.html?from=category_g_2_t_1.html use blocks to show decimal addition
http://nlvm.usu.edu/en/nav/frames_asid_155_g_2_t_1.html?from=category_g_2_t_1.html use blocks to show decimal subtraction

What's Your Angle, Pythagoras? by Julie Ellis and Phyllis Hornun
Pattern Bugs by Trudy Harris
Pattern by Henry Arthur Pluckrose
Rabbits Rabbits Everywhere: A Fibonacci Tale by Ann McCallum