

Family Math Night

How to Help Your Child in Math

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Family Math Night Goals

- ✧ To strengthen the mathematical aptitudes of students through the power of family interaction.
- ✧ Students and our families have the opportunity to practice math skills together.
- ✧ Helps children develop math skills, and more importantly, a love for math through fun activities.
- ✧ Introduces parents to the new shifts in Math wi

Costello teaches Abbott Math in “In the Navy”

✧ <http://www.youtube.com/watch?v=elmfu>

$13 \times 7 = 28 ??$



Parent Tips for Helping with Math Homework

- ✧ Set aside a regularly scheduled time for your child to complete his/her homework
- ✧ Talk with your child about his/her mathematics learning experiences at school
- ✧ Provide a quiet environment for your child to work
- ✧ Be positive about your child's math efforts
- ✧ Help your child explain what is being asked
- ✧ Have your child "tell a story" that illustrates the problem
- ✧ Encouraging your child to ask questions, solve problems, and to explain his/her solutions – offer guidance, NOT solutions

Help Your Child See How Mathematics is a Part of Daily Life

- ✧ Parents can help influence their student's math skills. You probably don't realize it, but whenever you:
 - sort objects
 - read maps or schedules
 - compare prices
 - work with family finances
 - make change
 - use a calculator or calendar
 - measure a wall
 - figure out how much wallpaper will cover

You are a living textbook!

- Here are a few math activities that you can do with your child.

Help Your Child See How Mathematics is a Part of Daily Life

- ✧ The best help you can give your student in math is simply to make your child aware of when and how to use math.
- ✧ Whenever possible, talk through activities with your child and encourage him/her to take part in them.
- ✧ Think out loud, make estimates, check them, correct mistakes, and try more than one way to solve a problem.
- ✧ When you do, you provide your child with important experiences in mathematical thinking.
- ✧ Allow your child to make mistakes and when you notice, ask him/her to explain the answer and then help him/her figure out the correct answer ---DON'T JUST GIVE HIM/HER THE ANSWER!!

Math Activities to do with Your Child

Estimation Activities

- ✧ Ask your child to guess the number of items in your home. Make a list. Then count them together. Examples may include pillows, windows, doors, chairs, and shoes. Then compare estimates with an actual count. Make comparisons between items to help young children understand the concepts of "more" or "less" and put them into categories.
- ✧ Young children can estimate by using items like pencils, crayons, or parts of their own bodies. Older children can use regular units of measurement like rulers or measuring cups and spoons.
- ✧ Have your child complete his/her own height and weight charts. Begin by estimating, actually measure, and then graph the information. Keep a record over a period of time.

Math Activities to do with Your Child

Traveling Activities

- ✧ Discuss directions (north, south, east, and west) to give your child a sense of coordinates. Have child use street maps to find travel routes and addresses and estimate the time of your arrival and compare that to the actual time it took to arrive at a given destination.
- ✧ Have competitions when traveling. Have child count red cars or see who can find the largest number formed by the numerals on a license plate.
- ✧ Have child practice, record, and read the large number on license plates viewed. Find the largest number in a given time period of travel.

Math Activities to do with Your Child

Cooking/Shopping Activities

- ✧ Let child help with the cooking by measuring the ingredients and checking cooking times and temperatures. Older children can increase or decrease recipes.
- ✧ Have child figure out how to cut a pizza, cake, pie, or sandwich for different numbers of people.
- ✧ Have child determine how much or how many of a grocery item is needed for the entire family, or how much is needed for a given recipe.

Common Core: 6 *Shifts* in Mathematics

North Carolina Standard Course of Study

- ✧ **Focus:** learn more about fewer, key topics
- ✧ **Coherence:** build skills within and across grades
- ✧ **Fluency:** develop speed and accuracy
- ✧ **Deep Understanding:** really know it, really do it
- ✧ **Applications:** use it in the real world
- ✧ **Dual Intensity:** think fast AND solve problems

NCEOG Sample Grade 4 Question

Which of the number patterns below follows the rule subtract 7 to get to the next number?

A 79, 72, 56, 51, 47, 44

B 66, 60, 53, 45, 36, 26

C 51, 44, 37, 30, 23, 16

D 43, 36, 29, 24, 19, 12

Commentary: This question assesses a student's ability to generate a number pattern, based upon a given rule.

Rationale: C is correct, because each successive term is created by the rule "subtract 7." The pattern in C is "subtract 7," or $51 - 44 = 7$, $44 - 37 = 7$, and so on. An answer of A or D would most likely indicate that the student did not test to see if the pattern explained how every term in the sequence was generated. Selecting B would most likely indicate a mistake in subtraction or application of the rule.