

Ordering/Comparing

- ❖ Play the card game "War" with each player drawing 2, 3, or 4 cards to make a number. The player with the highest number takes all the cards.
- ❖ Draw a greater than (>), less than (<), and equal sign (=) on separate index cards. Use 2, 3, or 4 playing cards (or roll dice) to make a number. Repeat. Compare the numbers and put the correct sign between them.

Estimating and Counting

- ❖ Skip count forwards and backwards by 2s, 3s, 4s, 5s, and 10s.
- ❖ Estimate how many miles you will travel this summer. Keep a math log.
- ❖ Estimate your family's grocery bill over the summer. When you go to the grocery store, check the receipt to see how close you were.
- ❖ Make an estimation jar. Have a grown-up fill it with small candies, cereal, nuts, etc. Guess how many are in the jar. Have everyone in the family guess too. Who was the closest? What strategies did you use? Repeat weekly.

Addition/Subtraction/Multiplication/Division

Knowing all of your addition, subtraction, and multiplication facts is very important in 4th grade.

- ❖ Use dice or cards to create 2 different numbers - up to 4 digits each. Use these numbers to practice adding and subtracting. Be sure to write the addition/subtraction sentence too.
- ❖ Difference Challenge - Take 4 cards and make two 2-digit numbers. Subtract these and record the difference. Repeat 4 times. Add your list of numbers. The winner is the player with the lowest sum.
- ❖ Practice multiplication and division facts. Challenge yourself: Can you answer all 100 in 3 minutes?

Place Value

- ❖ Use dice or a deck of cards (without the jokers and face cards). Each player turns over 2, 3, 4, 5, or 6 cards and makes a number. The player with the largest number takes all the cards. Tell the value of each digit. For example: My number is 7,542 → 7 is 7,000; 5 is 500; 4 is 40; 2 is 2.
- ❖ Use dice or cards to make a 2-, 3-, or 4-digit number. What number is 10 more? 10 less? 100 more? 100 less? 1000 more? 1000 less?

Money

- ❖ Buy a package of cookies. When you get home, count the cookies. Divide the cost of the cookies by the number of cookies to find out how much each

cookie costs. The next time you go to the store, get a different kind of cookie or brand. Find the cost per cookie. Which cookie is a better buy?

- ❖ Keep a piggy bank and count change.
- ❖ Pick an amount of money less than \$50. Find as many different ways as you can to represent that amount with coins and bills.
- ❖ Assign each letter of the alphabet a money value (A=1¢, B=2¢, C=3¢, etc.). Find out how much your name is worth. Who in your family has the most expensive name? Repeat with everyday words. Can you find a word worth \$1.00?
- ❖ Use grocery fliers and choose 3 items you wish to purchase. How much change would you receive from a five, ten, or twenty dollar bill?

Time

- ❖ Predict how long it will take you to do different activities - brush your teeth, read some pages from a book, etc. Then time yourself to see how close you were.
- ❖ Count how many days and weeks you will have on summer vacation.
- ❖ Pick an activity. Look at the clock and record the time. Complete the activity. Look at the clock again and record the ending time. How much time did it take you to complete the activity?

Geometry/Measurement/Graphing

- ❖ Cook with an adult. Read the recipe and use measuring cups to help measure ingredients for cooking and baking.
- ❖ "Geometric Shapes in Our World" - Find examples of shapes in the world around you. Using these examples, create a scrapbook. You can use either drawings or photos. Example: Pizza for a circle, side of a rooftop for a triangle, tissue box for rectangular prism. Be sure to label your pictures with the shape.
- ❖ Measure the length and width of your bedroom, house, yard, etc. Then calculate the area and perimeter.
- ❖ On a family trip, everyone choose a color and keep track of the number of automobiles you see of each color. Make a bar graph to show the results.

Problem Solving

- ❖ Keep a math log of the amount of gas your family uses in gallons and the price per gallon paid. Determine the amount of money spent as the price changes.
- ❖ Play "I'm thinking of a number." Have someone pick a number between 1 and 1000 and you try to guess it. They should give you clues (more than 3 but less than 15; even/odd; too high/too low, etc.)

- ❖ Make up story problems and find the answer. Give them to someone else to solve and check their work.

Games

- ❖ Bingo
- ❖ Battleship
- ❖ Dominoes
- ❖ Monopoly

Websites

- ❖ <http://www.aaamath.com>
- ❖ <http://www.aplusemath.com>
- ❖ <http://www.thatquiz.com>
- ❖ <http://www.coolmath4kids.com>
- ❖ <http://www.discoveryschool.com>
- ❖ <http://www.eduplace.com>
Click on "Kids' Place"
- ❖ <http://www.funbrain.com>
- ❖ <http://www.funschool.com>
- ❖ <http://www.kidport.com>
- ❖ <http://www.LearningPlanet.com>
- ❖ <http://www.moneyfactory.com>
- ❖ <http://www.multiplication.com>
- ❖ <http://www.primarygames.com>
Click on "MATH"

Practice Books

- ❖ *Summer Bridges* - available at the School Box
- ❖ Math workbooks from Walmart, Target, Sam's Club, etc.

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MATH =
SUMMER
FUN!

Entering FOURTH Grade

These activities are designed to help students strengthen their mathematics skills during the summer months. Each child is encouraged to explore and have fun doing mathematics.