

Summer Math for Students Entering Fourth Grade

Below are some great everyday activities that you can do with your child any time to help build their number sense.



- ☐ Help make something in the kitchen and talk about all the math involved with measuring, portions, estimating, counting, multiplying, dividing, timing, etc.
- ☐ **Rock, Paper Scissors!** Play with somebody for 10 rounds. Keep track of how many wins and losses you each have. Play again.
- ☐ Have somebody time you for 2 minutes. Count how many jumping jacks you can do. Take a rest and repeat. What is the difference between the first and second time?
- ☐ Happy Birthday USA! The USA was born in 1776. How many years ago was that? What year will our nation be 250 years old? 300 years old?
- ☐ Find out what time the sun rises and sets each day this week. Use that data to figure out how much daytime we get each day. Is the amount of daytime getting longer, shorter or staying the same? Continue to check about once a week to see if the pattern continues.
- ☐ The world record for paper airplane flight is 226 feet 10 inches. How close can you come to breaking the record? The longest an airplane has stayed in the air is 29 seconds. Can you break that record? How close did you get? What shape are in your paper airplane?
- ☐ Use sidewalk chalk to draw an interesting picture that includes at least 1 rectangle, 1 triangle and 1 square that are all symmetrical.
- ☐ **Speed Multiplication War!** Each player turns over a card, first person to say the product of the 2 cards wins. If it is a tie to say the product then it is a war.
- ☐ I went to the beach on 4 different days and collected a total of 100 shells, but I never collected the same amount twice. What are some different combinations of shells I could have found in 4 days that would give me a total of 100 shells?

- ❑ When I played "Speed Multiplication War" I turned over 2 cards less than 5 and their product was an even number. What are all the combinations of cards I could have turned over?
- ❑ **Multiplication Hunt!** Look around your house and yard for things that are in groups and make up stories. 4 wheels on a car, if I had 3 cars how many wheels in all?
- ❑ I made 24 water balloons that I want to put in equal piles. How many different ways can I pile the balloons so there is always an equal number in each group?
- ❑ Write your full name. If each vowel is worth a quarter and each consonant is worth a dime, how much is your name worth? Who has the most valuable name in your family?
- ❑ The world record for spinning a coin is 25 seconds. How close can you come to breaking the record? Which coins can you get to spin the longest?
- ❑ Roll 2 dice and multiply the numbers. Do this at least 25 times. Keep track of the products using a line plot graph. Do you notice any patterns in the results?
- ❑ A firefly in my backyard glows 20 times every minute. How many times would he glow in 5 minutes? 10 minutes? 1 hour?
- ❑ **Close to 20!** Deal 5 cards to each player (ace=10). Choose 3 of your cards and use any operation (\times , \div , $+$, $-$) to get close to 20. Closest to 20 wins that round. Tie everyone wins.
- ❑ Jen multiplied $2 \times 3 \times 10$ and Madison multiplied $3 \times 10 \times 2$. Will they get the same answer? Does this always work when multiplying 3 numbers? Why?
- ❑ The tallest sunflower in the world grew to be 9 yards tall. How many inches tall is the sunflower? Draw a line 9 yards long outside. Hint: 3 feet = 1 yard.
- ❑ What is the sum of the dates of all the Wednesdays in July? Try to solve it mentally? What strategies did you use? Will you get the same answer in August?

- ❑ Fold a paper in half. How many sections do you get? Fold it twice, how many do you get? 3 times? 4? 5? How many times can you fold a paper in half?
- ❑ Estimate the length of a popsicle stick in inches and cm. Measure it to find out how close you were. What outside might be an inch, foot and yard long? Measure to check.
- ❑ How fast can you count from 0 to 44 counting by 4's? Have somebody time you. Try it again each day this week and see if your time improves. Try with other numbers.
- ❑ The next time you are in the use numbers on license plates to see who can $\times, \div, +, -$ the digits to get exactly 24.