

Resources and Ideas for Families

WELCOME!

This newsletter is sent home to families every nine weeks. It provides information on what your child is learning in math, activities you can do at home to reinforce the content, and suggestions for books and resources you can use to help your child learn math.

BUILDING A MATHEMATICAL COMMUNITY

Students will develop a problem solving protocol that will be posted in their math classroom.

Step 1: Read the question/prompt and quietly think on your own. No Pencils.

Step 2: Talk about the problem with your teammates. What is your plan to solve? Choose your strategy.

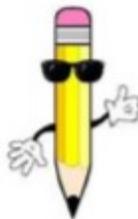
Step 3: Solve the problem.

Step 4: Discuss results.



PROBLEM SOLVING STRATEGIES

1. Draw a picture
2. Make a chart or list
3. Guess and Check
4. Use a formula
5. Look for a pattern
6. Work Backwards
7. Write a Number Sentence
8. Logical Reasoning



MATH IS FUN!

Check out the **MATH IS FUN** website which contains resources to help children learn math. Here you will find "How to Videos", Online Games, Vocabulary, and APPs related to the content your child is learning.



www.jcpsmath.weebly.com

During the 4th nine weeks, Fifth Grade students learn to:

- **Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, and interpret the quotient in the context of the problem.** For example, how much chocolate will each person get if 3 people share $\frac{1}{2}$ lb. of chocolate equally? OR How many $\frac{1}{3}$ cup servings are in 2 cups of raisins?
- **Multiply a multi-digit whole number using the standard algorithm.** Fifth graders will learn to multiply using the traditional method.
- **Divide a 4-digit whole number by a 2-digit whole number using my strategies.** Fifth graders will learn different strategies for solving division problems. However, the traditional long division strategy will not be taught until sixth grade.
- **Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$).** Use operations on fractions to solve problems involving the information presented in line plots.
- **Generate numerical patterns using two rules, and graph the ordered pairs generated.**
- **Solve real world problems by graphing points in the first quadrant of the coordinate plane.**

Activities to Try at Home

- Practice dividing by a unit fractions by pretending that you only have a $\frac{1}{4}$ cup measuring cup to use when preparing a recipe. We need 2 cups of blueberries for a muffin recipe. How many $\frac{1}{4}$ cups would we need? $2 \div \frac{1}{4} = ?$ What if we only had a $\frac{1}{2}$ cup measuring cup? What if we only had a $\frac{1}{8}$ cup measuring cup? How many would we need to measure 2 cups of blueberries?
- Practice dividing a four-digit number by a two-digit number using dice and cards (remove tens and face cards). The first player deals out 4 cards face-up to create a four digit number (Aces equal one). The first player then rolls two dice to determine the divisor. The first player solves and then the second player goes. The person with the smallest quotient (answer) is the winner. Make it more interesting by creating a story problem to go with the equation you created!
- Use this link to a website with a variety of activities/games that you and your child can play to practice coordinate graphing. Click here: <http://mathwire.com/geometry/coordgeom.html>

Check Out These Books!

Check out these books which connect to math content students are learning this cycle.

- *The Fly on the Ceiling* by Julie Glass
- *The Great Divide* by Dayle Ann Dodds
- *The Great Number Rumble* by Cora Lee & Gillian O'Reilly
- *Piece = Part = Portion (Fractions, Decimals and Percents)* by Scott Gifford



MATH TASK

Dividing by One-Half

Illustrative Mathematics

Which of the following problems can be solved by finding $3 \div \frac{1}{2}$?

- Shauna buys a three-foot-long sandwich for a party. She then cuts the sandwich into pieces, with each piece being $\frac{1}{2}$ foot long. How many pieces does she get?
- Phil makes 3 quarts of soup for dinner. His family eats half of the soup for dinner. How many quarts of soup does Phil's family eat for dinner?
- A pirate finds three pounds of gold. In order to protect his riches, he hides the gold in two treasure chests, with an equal amount of gold in each chest. How many pounds of gold are in each chest?
- Leo used half of the bag of flour to make bread. If he used 3 cups of flour, how many cups were in the bag to start?

Solution: A & D