

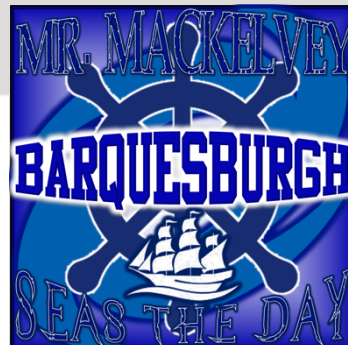
MACKELVEY MATHEMATICS

A GUIDE TO HELP FAMILY MEMBERS WITH FIFTH GRADE MATHEMATICS

Chapter

1

Whole Numbers and The Four Operations



Dear Family,

In this chapter, your child will learn about reading and writing large numbers and using operations to solve word problems. Skills your child will practice include:

- reading and writing numbers within 10,000,000
- multiplying by tens, hundreds, thousands, and powers of tens
- dividing by tens, hundreds, or thousands
- multiplying and dividing by 2-digit numbers fluently
- using order of operations to solve expressions
- solving real-world problems

Math Practice

Being able to work with large numbers is a useful skill in everyday life. At the end of this chapter, you may want to carry out these activities with your child. These activities will help your child practice using order of operations and to strengthen his or her number sense.

Activity 1

- Ask your child to roll a number cube several times and write the numbers on a piece of paper.
- Use the numbers to write an expression that includes parentheses and all four operations.
- Have your child use the order of operations to solve the expression.

Activity 2

- Have your child identify familiar cities, countries, or places he or she would like to visit.
- Use library resources or go online to find the population of each location and record the numbers on a piece of paper.
- Ask your child to read each number aloud and order the numbers from least to greatest.

Activity 3

- Have your child identify a topic of interest that involves numbers up to 10 million. For example, your child may be interested in learning about populations of social insects, such as termites or ants. The number of insects in some colonies can be millions or more.
- Use library resources or go online to learn more about the topic.

Sincerely,

Mr. MacKelvey
Mackelvey.weebly.com
cmackelvey@antilles.vi

Math Talk

Have your child draw a place-value chart including millions. Then, write a digit in each place, and ask your child to read the value of each digit. Next, ask your child to write the number in **expanded form**. For example, the number 5,634,213 in expanded form:

$$5,634,213 = 5,000,000 + 600,000 \\ + 30,000 + 4,000 \\ + 200 + 10 + 3$$

Help your child understand that an **expression** is similar to a word phrase, but it uses numbers in place of words and operation symbols, such as +, -, ×, and ÷. For example, $5 + (5 \times 4) \div 2$ is an expression. Invite your child to explain how to solve the expression using the **order of operations**. Explain that in this example, he or she must work within the parentheses first. Then, he or she multiplies and divides from left to right. Finally, he or she adds and subtracts from left to right.

$$5 + (5 \times 4) \div 2 \\ = 5 + 20 \div 2 \\ = 5 + 10 \\ = 15$$

So, $5 + (5 \times 4) \div 2 = 15$.