

**Dear Rising Fifth Grade Mathematicians,**

This summer, some hard work will help you to prepare for fifth grade math. The most important thing you can do to get ready for fifth grade is to **memorize your multiplication tables!** When your math facts are automatically in your head it is like having all of the ingredients for a recipe ready for you- you can jump right to the next step.

You should practice multiplication facts **often**. There are plenty of chances to practice in your daily life. (There are 6 friends coming over to eat pizza. Each person will probably eat three slices. How many slices of pizza do you need? How many pizzas will you need to order so that you have enough?)

For your summer math work you have **two options**. (Yes, you get to choose! How cool is that?)

1. Complete the **end-of-year Everyday Math assessment packet**
  - a. If you choose this option, you'll hand it in on the first day of school.
  - b. Please show your work and complete all work in pencil!
  
2. Practice math skills on **IXL.com**.
  - a. If you choose this options, you must master with **at least 80% accuracy seven** of the following 4th grade math skills.
  - b. Although you can choose which topics are best for you, you must master at least **one skill from each category** (Multiplication, Division, Mixed Operations, Functions, Fractions)
  - c. You can always try to master more than seven, but start by choosing skills in which you feel you need a little extra practice.
  - d. For this option, your teachers can view what you practice online, so you won't have to hand anything in on the first day of school.

❖ **Multiplication**

- D.2 Multiplication facts up to 12: find the missing factor

- D.3 Choose the multiples of a given number up to 12
- D.4 Identify factors
- D.5 Multiply 1-digit numbers by 2-digit numbers
- D.6 Multiply 1-digit numbers by 3-digit or 4-digit numbers
- D.7 Multiply 1-digit numbers by larger numbers
- D.8 Multiplication patterns over increasing place values
- D.10 Distributive property: find the missing factor
- D.11 Multiply using the distributive property
- D.12 Estimate products - multiply by 1-digit numbers
- D.13 Estimate products - multiply by larger numbers
- D.28 Inequalities with multiplication
- D.29 Multiplication input/output tables
- D.30 Multiplication input/output tables: find the rule

#### ❖ Division

- E.1 Division facts to 12
- E.2 Division facts to 12: word problems
- E.3 Properties of division
- E.4 Divide 2-digit numbers by 1-digit numbers
- E.5 Divide 2-digit numbers by 1-digit numbers: word problems
- E.15 Divisibility rules
- E.26 Estimate quotients

#### ❖ Functions

- H.1 Input/output tables with addition, subtraction, multiplication, and division
- H.2 Complete a table for a two-variable relationship
- H.3 Write a two-variable equation
- H.4 Graph a two-variable relationship

#### ❖ Mixed Operations

- F.1 Add, subtract, multiply, and divide
- F.2 Addition, subtraction, multiplication, and division word problems
- F.3 Estimate sums, differences, products, and quotients: word problems
- F.4 Multi-step word problems
- F.7 Choose numbers with a particular sum, difference, product, or quotient
- F.10 Inequalities involving addition, subtraction, multiplication, and division

#### ❖ Fractions

- Q.1 Fractions review
- Q.2 Understanding fractions: word problems
- Q.3 Mixed number review
- Q.6 Equivalent fractions
- Q.9 Reduce fractions to lowest terms
- Q.10 Benchmark fractions
- Q.11 Compare fractions using benchmarks

- Q.13 Compare fractions with like numerators or denominators using models
- Q.14 Compare fractions with like numerators or denominators
- Q.19 Order fractions with like numerators or denominators
- Q.20 Order fractions
- Q.22 Convert between improper fractions and mixed numbers
- S.1 Add fractions with unlike denominators using models
- S.2 Add fractions with unlike denominators
- S.3 Subtract fractions with unlike denominators using models
- S.4 Subtract fractions with unlike denominators

Whether you choose the paper and pencil practice, the online practice, or both, solidifying math skills over the summer is a great way to be ready for the start of school in September. We can't wait to start getting to know you as middle school mathematicians!

Sincerely,

Kim and Bianca, the 5th Grade Teaching Team

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P.S. Families, please feel free to email us with any questions.