



## Prerequisite Skills

At the beginning of the year, your child should be able to...

- Rapidly recall basic +, -, x, and / facts
- Multiply and divide multi-digit numbers
- Add, subtract, and compare fractions
- Understand the relationship between fractions and decimals
- Represent and interpret data
- Quickly and accurately add and subtract whole numbers to 1 million
- Solve word problems including measurement, time, and conversions
- Draw and identify 2-D shapes



## Future Content Skills

Next year, your child will...

- Understand and apply the concepts of ratios and unit rates
- Further develop skills of multiplication and division with fractions
- Understand the relationship of positive and negative numbers
- Continue working with whole-number exponents
- Apply the properties of operations
- Further develop problems involving area and volume
- Work with dependent and independent variables

# 5<sup>th</sup> Grade Math



What does your child need to know?



A guide for parents

# 5<sup>th</sup> Grade Core Content Skills

■ Adding and subtracting fractions with unlike denominators (e.g.  $2\frac{1}{4}$ - $1\frac{1}{2}$ ); and solving related word problems

■ Multiplying fractions; dividing fractions in simple cases; and solving related word problems (e.g., finding the area of a rectangle with fractional side lengths (e.g. how many  $\frac{1}{3}$ -cup servings are in 2 cups of raisins?; what is the size of a share if 9 people share a 50-pound sack of rice equally or if 3 people share  $\frac{1}{2}$  pound of chocolate equally?)

■ Understanding the concept of volume, and solving related word problems that involve volume

■ Analyzing mathematical patterns and relationships

■ Generalizing the place-value system to include decimals, and calculating with decimals to the hundredths place (two places after the decimal)

■ Multiplying whole numbers quickly and accurately, (e.g.  $1,638 \times 753$ ); and dividing whole numbers, (e.g.  $6,971$  divided by 63)

■ Graphing points in the coordinate plane (two dimensions) to solve problems

■ Converting measurement

■ Classifying two-dimensional figures into categories

Adapted from PTA.org

## Things to do with your child

1. Use everyday objects to allow your child to explore the concept of fractions. For example, have your child divide a candy bar between three people. Ask, "How much does each person receive?" (Each person would receive  $\frac{1}{3}$ ). Suppose there are three candy bars that you plan to share with two friends. Have your child describe the amount that each person will receive. (Each person would receive  $\frac{1}{2}$ ).
2. Have your child explain how to write fractions in different ways. ASK, "What are some different ways to write  $\frac{4}{3}$ ?" Possible answers are  $4 \div 3$ ,  $1\frac{1}{3}$ ,  $2/3 + 2/3$ ,  $2 \times 2/3$ ,  $8/6$ ,  $4 \times 1/3$ , etc.
3. Ask your child to give you a fraction equal to a decimal. Ask, "What are two fractions that can be used to represent 0.6?" Possible answers are  $6/10$ ,  $60/100$ ,  $12/20$ , or  $3/5$ , etc.
4. Praise your child when he or she makes an effort!

## Parent Support Links

ASD STEM resources-

(homework help, "do anytime activities

Think Central support, glossary)

<http://www.asdk12.org/math>

(scroll down to "Families")

Go Math! Lesson Videos –

Helpful videos for each math lesson

<http://bit.ly/1W9bjFE>

Keep math fun! Talk and explain your thinking!