



## Prerequisite Skills

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

- Understand the relationship between multiplication and division
- Multiply and divide up to 100
- Solve word problems using multiplication and division
- Develop and understanding of fractions as numbers
- Understand and calculate area and perimeter
- Solve problems using measurement, including time, volume and mass



## Future Content Skills

Next year, your child will...

- Multiply and Divide with whole numbers, fractions, and decimals
- Multiply and Divide using exponents
- Add, Subtract, Multiply, and Divide with fractions
- Develop strategies for solving long division problems
- Explore geometric figures in 2D and 3D
- Convert like measurements within a system (metric, customary)
- Represent and interpret data

# 4th Grade Math



What does your child need to know?



A guide for parents

# 4th Grade Core Content Skills

## Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

## Number and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

## Number and Operations—Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

## Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

## Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

## Things to do with your child

\* Play basic multiplication and division fact games

\*Relate fractions to real world situations

\* Identify 2D shapes together and talk about the features

\* Explore grocery store math (money, decimals, estimation, receipts, prices, serving sizes, weight, and capacity)

\* MEASURE! Give kids a chance to find length, find weight, find capacity, tell time, and use standard units to describe the world.

\*Solve computation problems in many different ways.

\*Locate and examine angles around you

## Parent Support Links

[ASD parent resources](#)- (homework help, “do anytime activities”, thinkcentral support, glossary)

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

[Parent Road Map](#) – supporting your child in math

<http://bit.ly/parentroadmap4th>

Keep math fun!

Talk and explain your thinking!