

# Math Expectations for Fourth Grade

Incoming fourth graders should be able to multiply and divide within 100. They should also be able to add and subtract within 1,000 accurately. In third grade, students spent a lot of time learning about ways to solve and represent multiplication in division. They also worked on developing an understanding of fractions. Work with area, perimeter, time, and measurement rounded out their math foundation in third grade.

Fourth graders will spend a majority of their year working with numbers to a million. By using equations, place value understanding, and visual models students will learn how to add, subtract, multiply, and divide large numbers. A lot of time will also be spent on expanding their knowledge of fractions. Working on geometry, measurement, and decimals is also an important part of the fourth grade curriculum.

## Ways to practice math over the summer!

### Fun Activities

- Practice real-life estimation skills – determine about how many people are on a line, about how long an activity is, about how tall someone is
- Have your child follow a recipe and measure fractional ingredients
- Practice breaking things into equal amounts- discuss the fairest way to cut up a tray of brownies, pack snacks for the beach, discuss what happens if you have uneven amounts
- Practice real life multi-step problems - have your child figure out how much pizza needs to be ordered based on the amount of people then figure out how much money it will cost
- Have your child make choices regarding money – how many different ways can you receive a certain amount of change, what can be bought from the ice cream truck
- Practice using a clock or watch and talk about passing time – determine what time they need to be picked up from an activity, how long they were at someone's house
- Make flashcards to review basic multiplication, division, addition and subtraction facts

### Games

- 24 (also an app)
- Monopoly
- Head Full of Numbers
- Yahtzee
- Sudoku
- Tape some math facts onto Jenga blocks
- Any games with dice or playing cards will help strengthen number sense

### Websites

- <https://www.zearn.org/> - students can use their logins during the summer
- <https://www.reflexmath.com/> - students can use their logins during the summer
- <https://gregtangmath.com/index>
- <https://www.coolmathgames.com/>
- [www.mathisfun.com](http://www.mathisfun.com)
- [www.sheppardsoftware.com/](http://www.sheppardsoftware.com/)

\*All internet activities should be monitored closely.

### Books

Look for books about math at your local library. Here are some recommended titles:

- *How Much is a Million?* By David Schwartz
- *The Lemonade War* by Jacqueline Davis
- *Sideways Arithmetic from Wayside School* by Louis Sachar
- *7 x 9 = Trouble* by Claudia Mills