

Math Expectations for Fifth Grade

Incoming fifth graders should be able to add and subtract within 1,000,000 accurately. They should also be able to fluently multiply and divide single digit numbers. In fourth grade, students spent a lot of time working on using equations, place value understanding, and visual models to learn how to add, subtract, multiply, and divide large numbers. They also worked on expanding their knowledge of fractions. Work with geometry, measurement, and decimals rounded out their math foundation in fourth grade.

Fifth graders will spend a majority of their year working with fractions. Not only will they learn how to add, subtract, multiply, and divide fractions but they will also discover the connection between decimals and fractions. A lot of time will be spent focusing on the multiplication and division of multi-digit numbers. Working on measurement conversions, problem solving, geometry, and the coordinate plane is also an important part of the fifth grade curriculum.

Ways to practice math over the summer!

Fun Activities

- Practice using money – figure out how much change someone should get back, trade in coins for bills or bills for coins, determine what you could buy if given a certain amount of money, discuss the location of the decimal between dollars and coins
- Read a map – talk about distance, location, latitude, longitude
- 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
- Ask your child to double a recipe
- 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
- Practice using a clock or watch and talk about passing time – what time is a movie over, how long is practice
- Make flashcards to review basic multiplication, division, addition and subtraction facts

Games

- 24 (also an app)
- Monopoly
- Head Full of Numbers
- Battleship
- 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
- 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:

- *Math Wiz* by Betsy Duffey
- *The Lemonade War* by Jacqueline Davis
- *More Sideways Arithmetic from Wayside School* by Louis Sachar
- *Fractions = Trouble* by Claudia Mills