# MATH MILESTONES

What to Expect as Kids Grow Up

## **0-12 MONTHS**

#### AGES 3-4 YEARS

### **1ST AND 2ND GRADERS**

- Count to 100 by ones, twos, fives, and tensWrite and recognize the numerals 0 to 100, and the words for numbers from one to twenty Do basic addition and subtraction up to 20
- Read and create a simple bar graph Recognize and know the value of coins

### 4TH AND 5TH GRADERS

- 8

- Complete long division, with or without remainders Estimate and round

### **HIGH-SCHOOLERS**

- variables Use numbers in real-life situations like calculating a sale price or comparing student loans Begin to see how math ideas build on one another Begin to understand that some math problems don't have real-world solutions Use mathematical language to convey thoughts and solutions
- Use graphs, maps, or other representations to learn and convey information

# AGES 1-2 YEARS

- Start seeing patterns in daily routines and in things like floor tiles ł

#### AGE 5 YEARS

- Add by counting the fingers on one or both hands
  Identify the larger of two numbers
  Copy or draw symmetrical shapes
  Begin to understand basic time concepts
  Follow multi-step directions
  Understand the meaning of words like unlikely or possible

#### **3RD GRADERS**

- Move from using hands-on methods to using paper and pencil to work out math problems
- Work with money
  Do addition and subtraction with regrouping
  Understand place value well enough to solve problems with decimal points
- Create a number sentence or equation from a word problem

### MIDDLE-SCHOOLERS

- Begin basic algebra with one unknown number
  Use coordinates to locate points on a grid, also known as graphing ordered pairs
  Work with fractions, percentages, and proportions
  Work with lines, angles, types of triangles, and other basic geometric shapes
  Use formulas to solve complicated problems and to find the area, perimeter, and volume of shapes

