



# Mathematics Benchmark Achievements

## Primary Mathematics

Ages 4-8

### Objectives at this age:

- Learn through play.
- Find joy in mathematics.
- Play games with numbers.
- Allow children to see practical application of numbers and shapes.

*Games and activities can be designed to teach the following math concepts to prepare children to begin elementary mathematics sometime after their 8<sup>th</sup> birthday.*

### Specific Math Skills to learn:

- Compare sets of objects with phrases like more than, less than, equal, most and least.
- Recognize and write numbers 0-100.
- Count 0-100 by ones, twos, fives, and tens.
- Count by tens from a given single-digit number.
- Count forward and backward.
- Identify ordinal position: first, second, third . . . tenth.
- Identify dozen,  $\frac{1}{2}$  dozen, and pair.
- Basic Addition
- Basic Subtraction
- Fact families for addition and subtraction (i.e.  $5+2=7$ ;  $7-2=5$ )
- Basic Multiplication
- Basic Division
- Fact families for multiplication and division (i.e.  $2 \times 3=6$ ;  $6 \div 3=2$ )
- Basic shapes – circles, squares, rectangles, triangles, oval
- Identify triangles, squares, and rectangles by number of sides.
- Measurements used in cooking: Teaspoons, tablespoons, cups, pints, quarts, and gallons
- Measurements in inches, feet, and centimeters
- Tools of measurement: ruler, scale, thermometer
- Fractions used in cooking and serving food
- Money: Identify pennies, nickels, dimes, quarters, one-dollar bills, dollar sign (\$) and cent sign (¢).
- Time: Read a clock face to the hour, half hour, minutes past and before the hour.
- Memorize math facts 1-12 for addition, subtraction, multiplication, and division.