

# MATH OUTCOMES

## THIRD GRADE

### **1. Read, write and compare whole numbers through 5-digit numbers and round 2 and 3-digit numbers to the nearer ten, hundred, thousand, or ten thousand.**

- A. Read and write to one 100,000 place.
- B. Compare  $<$ ,  $>$ ,  $=$  for whole numbers.
- C. Be able to find 10's, 100's, 1,000's, 10,000's, 100,000 place.
- D. Round to nearer ten, hundred, thousand, or ten thousand by looking at digit in adjacent place value.
- E. Find 10,000 more or 10,000 less than a given five-digit number.

### **2. Understand renaming numerals up to 4 digits in addition and subtraction.**

- A. Know how to align 4-digit numbers to add and subtract.
- B. Demonstrate regrouping.
- C. Demonstrate that each column must be filled before moving on to the next.
- D. Know how to choose the correct operations to solve daily life problems.
- E. Know how to use manipulatives to understand renaming.

### **3. Tell time to the nearest minute after the hour.**

- A. Understand functions of the minute hand and minute markings on the clock.
- B. Tell time to minutes.
- C. Know and read correct time on standard and digital time.

### **4. Count various amounts of money.**

- A. Write coin values using proper money values.
- B. Choose coins that are equivalent to a given amount of money.
- C. Make change up to one dollar in several different ways, including with as few coins as possible.

### **5. Know basic multiplication and division facts.**

- A. Demonstrate multiplication and division through the use of manipulatives.
- B. Know fact family relationships of multiplication and division.
- C. Know basic multiplication facts through 12.
- D. Interpret and represent number sentences involving multiplication and division basic facts and unknowns.

### **6. Use the five-step problem solving process.**

- A. Read carefully to find the facts.
- B. Identify the question of the problem.

- C. Decide what operation to use.
- D. Solve and label the answer.
- E. Read problem again to see if answer makes sense.

**7. Read, write, illustrate and compare fractions with like denominators.**

- A. Know placement of numerator and denominator.
- B. Know meaning of denominator as the whole and numerator as parts of the whole.
- C. Use manipulatives and pictures to compare size of fractions.
- D. Know how to name fractions correctly.
- E. Recognize equivalent fractions.

**8. Identify, measure and describe plane and geometric figures.**

- A. Identify, measure, label and draw square, circle, triangle, rectangle, pentagon, hexagon, octagon.
- B. Identify and label cubes, spheres, cylinders, cones, pyramids and rectangular prisms.
- C. Be able to describe plane and geometric figures in terms of shape, sides, perimeter, area, and examples.
- D. Identify parallel, perpendicular, and intersecting lines.

**9. Recognize cubes, spheres, cylinders, cones, pyramids and rectangular prisms.**

- A. Identify the number of sides and corners.
- B. Understand that a solid figure is not flat.
- C. Differentiate between two or more shapes.

**10. Read, interpret and construct bar graphs and calendars.**

- A. Understand labels and units on horizontal and vertical picture graphs.
- B. Understand labels and units on a bar graph.
- C. Solve one-step problems using a graph.
- D. Know that a calendar is divided into days, weeks, and months.
- E. Construct simple graphs and calendars to solve problems.

**11. Understand concepts of measurement.**

- A. Understand the need for a standard unit of measurement.
- B. Measure to the nearest half inch and quarter inch, centimeter, half centimeter, and meter.
- C. Estimate and measure lengths to the nearest inch and centimeter.
- D. Find the area and perimeter of a polygon.
- E. Calculate the area of a rectangle by using number models.
- F. Know the relationship of diameter and circumference.