

# MATHEMATICS

## Level 2.0 - 3.9 • (Beginning Basic Education)

### Literacy Completion Point B

Student: \_\_\_\_\_ ID #: \_\_\_\_\_ Entry Date: \_\_\_\_\_

Institution: \_\_\_\_\_ Date Achieved: \_\_\_\_\_

Site: \_\_\_\_\_ Instructor(s): \_\_\_\_\_

Program Number: 9900000

Course Number: 9900001

CIP Number: 1532.010200

PLEASE CHECK CORRESPONDING BOX AS EACH STANDARD IS ACHIEVED.

### STANDARD 7

Show awareness of the ways numbers are represented and used in the real world

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 07.01 Associate whole numbers less than 100 to their respective spoken names, written names, and numerals.
- 07.02 Understand the relative size of whole numbers between 0 and 100.
- 07.03 Use objects to represent whole numbers, commonly-used fractions, or mixed numbers and relate these numbers to real-world situations, e.g., 1/4 pizza, 1/2 sandwich, and 1 and 1/2 pies.

### STANDARD 8

Understand number systems

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 08.01 Understand and apply the concepts of counting by 2s, 3s, 5s, 10s, 25s, and 50s.
- 08.02 Understand place value for hundreds, tens, ones, tenths, and hundredths.
- 08.03 Classify a number as even or odd.

### STANDARD 9

Compute addition and subtraction problems

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 09.01 Understand and explain the inverse (opposite) relationship between addition and subtraction.
- 09.02 Add whole numbers to solve real-world problems using appropriate methods of computing; such as, manipulatives, mental mathematics, and paper and pencil.
- 09.03 Subtract whole numbers to solve real-world problems using appropriate methods of computing; such as, manipulatives, mental mathematics, and paper and pencil.

### STANDARD 10

Compute multiplication and division problems

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 10.01 Understand and explain the effect of multiplication on whole numbers.
- 10.02 Identify multiplication terminology and symbols.
- 10.03 Recall multiplication facts using a table or memory.
- 10.04 Multiply a 2-digit number by a 1-digit number without regrouping, and multiply three 1-digit numbers.
- 10.05 Understand and explain the effect of division on whole numbers.
- 10.06 Identify division terminology and symbols.
- 10.07 Understand the inverse relationship between multiplication and division.
- 10.08 Recall division facts using memory or a table.
- 10.09 Divide a 2-digit number by a 1-digit number where the quotient is a whole number (no remainder).

### STANDARD 11

Apply math skills in word problem applications

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 11.01 Recognize clue words for choosing operations to be used to solve real-world problems, e.g., add, plus, total, sum, subtract, difference, left, remaining, multiply, times, several, divide, each, and per.
- 11.02 Explain the reasoning steps in solving real-world problems by:
  - determining the question
  - identifying the information given
  - deciding on the operation
  - working and checking
  - making certain the answer is logical
- 11.03 Recognize that all math has only four operations: addition, subtraction, multiplication, and division.
- 11.04 Select the appropriate operation to solve specific problems involving addition, subtraction, multiplication, and division.

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## STANDARD 12

### Demonstrate estimation skills

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 12.01 Round numbers to 10s and 100s.
- 12.02 Use rounding techniques to estimate the solution to a real-world addition or subtraction problem; then determine the actual result through computation.

## STANDARD 13

### Use units of measurement

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 13.01 Identify the larger of two customary\* measures.
- 13.02 Identify common units of customary\* measurements for length, capacity, weight, and temperature.
- 13.03 Identify, select, and use appropriate tools from the customary\* system for measuring length, capacity, weight, and temperature.
- 13.04 Tell time on the half-hour, quarter hour, and in minutes.

\*Customary refers to the system of measurement used in the United States.

## STANDARD 14

### Recognize a wide variety of patterns, relations, and functions

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 14.01 Recognize symbols and concepts of equal (=) and unequal ( $\neq$ ) and less than (<) and greater than (>).
- 14.02 Identify the next item of a pattern or number of a number sequence.
- 14.03 Identify the missing item of a pattern or number of a number sequence.

## STANDARD 15

### Describe and identify three-dimensional shapes

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 15.01 Identify and describe the characteristics of basic 3-dimensional shapes.

## STANDARD 16

### Solve money problems

Date: \_\_\_\_\_ Instructor: \_\_\_\_\_

The student will be able to:

- 16.01 Count coins and currency.
- 16.02 Determine equivalent amounts of up to five dollars using coins and paper currency.
- 16.03 Determine change from a one-dollar bill.
- 16.04 Determine equivalent amounts of up to ten dollars using coins and paper currency.
- 16.05 Solve real-world problems involving change after purchases with a ten-dollar bill.
- 16.06 Solve real-world problems involving comparison shopping for purchases of less than ten dollars.

Administrator: \_\_\_\_\_ Instructor: \_\_\_\_\_

Signatures verify achievement of LITERACY COMPLETION POINT B Effective: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_