MI Access™
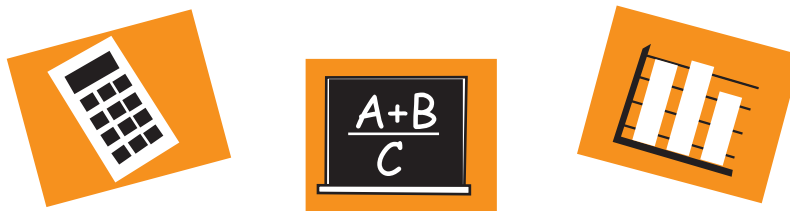**Michigan's Alternate Assessment Program**

Functional Independence
Spring 2013

A+B / C

Mathematics

Item Descriptors

Grade 11

MICHIGAN STATE BOARD OF EDUCATION
STATEMENT OF ASSURANCE OF COMPLIANCE WITH FEDERAL LAW

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

NOTE: For each item listed throughout this booklet, the first statement is a summary of the Michigan Extended Grade Level Content Expectation (EGLCE) and the second statement or problem is the descriptor for the item's stem or question.

1 F.11.FI.EB01: Create, describe, and extend simple number patterns

Find missing number in skip-counting pattern

A added 1 to previous number

B correct

C over by 2

2 F.11.FI.EB02: Find the next number in a simple repeating pattern

Determine rule for skip-counting pattern

A correct

B divided, instead of subtracted

C added, instead of subtracted

3 F.11.FI.EB03: Identify, describe, and extend patterns found in daily life

Find next time in a given pattern involving time

A subtracted 30 minutes, instead of adding

B correct

C added 60 minutes, instead of 30 minutes

4 F.11.FI.EB03: Identify, describe, and extend patterns found in daily life

Describe pattern in calendar

A incorrect pattern

B incorrect pattern

C correct

5 G.11.FI.EB01: Select and use standard tools for measurement

Identify tool for measuring height

A   tool for measuring time

B   tool for measuring weight

C   correct

6 G.11.FI.EB03: Measure and compare integer temperatures

Compare temperatures in degrees Fahrenheit

A   half of correct difference

B   correct

C   temperature on 2nd thermometer

7 G.11.FI.EB04: Read gauges and meters

Read gasoline gauge

A   correct

B   more than correct amount

C   less than correct amount

8 G.11.FI.EB08: Measure perimeter

Find perimeter of rectangle given length and width

A   area = perimeter

B   length + width

C   correct

9 G.11.FI.EB10: Tell time on a radial or digital clock to the nearest 5 minutes

Tell time on radial watch

A   correct

B   one hour later than correct time

C   location of minute hand as hours, location of hour hand as minutes (times 5)

10 G.11.FI.EB09: Convert measurements of length

Convert yards to feet

A   added yards to 3 feet

B   correct

C   1 yard = 12 feet

11 G.11.FI.EB11: Know equivalent calendar units

Convert years to months

A   1 year = 7 months

B   correct

C   1 year = 18 months

12 G.11.FI.EB14: Solve one- and two-step word problems

Subtract measurement in inches in context

A   correct

B   10 inches greater than correct length

C   added

13 G.11.FI.EB13: Read and interpret schedules

Interpret bus schedule

A   first arrival time at previous corner

B   correct

C   second arrival time at next corner

14 G.11.FI.EB12: Use a calendar and equivalent calendar units

Determine number of weeks between two dates given two calendars

A   one less week than correct number of weeks

B   correct

C   one more week than correct number of weeks

15 G.11.FI.EB16: Tell the amount of money in dollars and cents

Determine amount of money shown given photos of bills and coins

A $10 bill = $1

B   correct

C   quarter, dimes, and nickels = 10 cents

16 G.11.FI.EB17: Add and subtract money in dollars and cents

Subtract money given in decimal notation

A   subtracted smaller values from greater

B   correct

C   correct dollar amount, incorrect number of cents

17 G.11.FI.EB17: Add and subtract money in dollars and cents

Add money given in decimal notation

A　subtracted

B　correct number of dollars and cents from first addend

C　correct

18 G.11.FI.EB18: Round money

Round money given in decimal notation to nearest dollar

A　round down amount over 50 cents

B　correct

C　nearest ten dollars

19 G.11.FI.EB20: Read, interpret, and use maps and grids with legends

Describe directions to location on map

A　incorrect directions

B　incorrect directions

C　correct

20 G.11.FI.EB19: Find and name locations using simple coordinate systems

Identify location of point on coordinate grid

A　$(x - 1, y)$

B　(y, x)

C　correct

21 D.11.FI.EB04: Describe the shape of data using informal language

Describe data in line graph

A　correct

B　opposite description

C　incorrect description

22 D.11.FI.EB07: Identify data needed to solve a problem

Select description to determine total distance ran

A　correct

B　description for starting times

C　description for elapsed time

23 N.11.FI.EB01: Read, write, and count using whole numbers to 100,000

Add 1 to given amount

A   correct

B   10 times correct sum

C   100 times correct sum

24 N.11.FI.EB03: Express numbers to 100,000 using place value

Identify number with given number in thousands place

A   correct

B   ten thousands place

C   hundreds place

25 N.11.FI.EB05: Round whole numbers

Round 3-digit number to nearest hundred

A   rounded down number over 50

B   rounded to nearest tens place

C   correct

26 N.11.FI.EB04: Compare and order numbers to 100,000

Identify number less than given 4-digit number

A   correct

B   greater than given number

C   greater than given number

27 N.11.FI.EB10: Understand percentages

Identify circle with given percentage of shading

A   correct

B   circle with less than given % of shading

C   circle with considerably less than given % of shading

28 N.11.FI.EB11: Convert percentages

Convert fraction to decimal

A $a/b = 0.a0$

B $a/b = 0.b0$

C   correct

29 N.11.FI.EB12: Solve word problems involving percentages

Calculate amount of sales tax given tax rate and monetary value

A   incorrect amount

B   incorrect amount

C   correct

30 N.11.FI.EB15: Add and subtract two fractions with like denominators

Add two fractions with like denominators

A   added numerators and denominators

B   correct

C   subtracted

31 N.11.FI.EB17: Round money

Round money in decimal notation to nearest dollar

A   rounded down amount over 50 cents

B   rounded to nearest dime

C   correct

32 N.11.FI.EB13: Recognize, name, represent, and write fractions

Identify shaded rectangles that match given fraction, x/y

A   correct

B   model with x shaded rectangles and y nonshaded rectangles

C   model with x + y rectangles, completely shaded

33 N.11.FI.EB14: Compare and order fractions

List fractions from least to greatest

A   correct

B   mixed order

C   mixed order

34 N.11.FI.EB16: Compare and order decimal fractions in relation to money

Compare money given in decimal notation

A   incorrect comparison

B   correct

C   incorrect comparison

35 N.11.FI.EB19: Apply estimation in solving problems

Estimate sum

A   underestimate

B   correct

C   overestimate

36 N.11.FI.EB21: Solve applied problems

Determine amount of money given rate per hour and number of hours

A   incorrect total

B   used rate $1/hour less than correct rate

C   correct

37 N.11.FI.EB21: Solve applied problems

Multiply with fraction in context

A   multiplied amount given in item by incorrect fraction

B   amount given in item

C   correct

38 A.11.FI.EB01: Solve applied problems involving rates

Determine average speed given distance and time

A   correct

B   50 mph less than correct speed

C   100 mph less than correct speed

39 A.11.FI.EB02: Identify the unknown quantity

Identify addend

A   total divided by addend

B   correct

C   total + addend

40 A.11.FI.EB03: Represent information using algebra

Identify equation that matches situation

A   correct

B   difference, instead of sum

C   addend + total = addend