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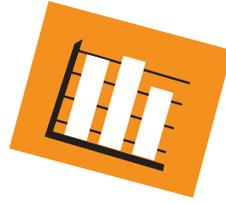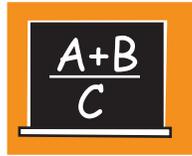**Michigan's Alternate Assessment Program**

Functional Independence
Fall 2011

Mathematics

Item Descriptors

Grade 8

MICHIGAN STATE BOARD OF EDUCATION

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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   **N.MR.07.FI.EG07:** Find the next number in a simple repeating pattern

Determine rule for skip-counting pattern

A   correct

B   added first number in pattern

C   ten = one

2   **N.MR.07.FI.EG07:** Find the next number in a simple repeating pattern

Determine rule for skip-counting pattern

A   one hundred = ten

B   correct

C   one hundred = one thousand

3   **N.MR.07.FI.EG06:** Create, describe, and extend simple number patterns

Find next number in skip-counting pattern given in table

A   added 1 to previous number

B   correct

C   sum of all numbers in table

4   **N.ME.07.FI.EG02:** Recognize representations for whole numbers to 100,000

Given key and blocks, determine value shown

A   one hundred = ten thousand
ten = one hundred

B   one hundred = one thousand
ten = one hundred

C   correct

5   **N.ME.07.FI.EG03:** Express numbers to 100,000 using place value

Determine which number has a given number in ten thousands place

A   correct

B   given number in thousands place

C   given number in tens place

6   **M.UN.07.FI.EG02:** Select appropriate units of measure

Select unit of measure for area

A   correct

B   unit of measure for volume

C   unit of measure for length

7   N.ME.07.FI.EG04: Compare and order numbers to 100,000

Identify list of numbers ordered from least to greatest

A   greatest to least

B   mixed order

C   correct

8   M.UN.07.FI.EG01: Select and use standard tools for measurement

Read thermometer in °F

A   less than correct temperature

B   correct

C   temperature above highest shown on thermometer

9   M.UN.07.FI.EG01: Select and use standard tools for measurement

Identify tool used to measure time

A   tool used to measure weight

B   correct

C   tool used to measure length

10   M.UN.07.FI.EG10: Tell time on a radial or digital clock to the nearest half-hour

Subtract time from time shown on analog clock

A   correct

B   time shown on clock

C   added, instead of subtracted

11   M.UN.07.FI.EG09: Convert units of measure

Convert feet to inches, given 1 foot = 12 inches

A   added 12 to number of feet

B   correct

C   twice correct number of inches

12   M.UN.07.FI.EG10: Tell time on a radial or digital clock to the nearest half-hour

Tell time on analog clock

A   half hour earlier

B   correct

C   one hour later

13 G.LO.07.FI.EG02: Find and name locations using simple coordinate systems

Interpret grid to name location

A   correct

B   incorrect location

C   incorrect location

14 G.LO.07.FI.EG03: Read, interpret and use maps and grids

Interpret map to find direction

A   incorrect direction

B   opposite direction

C   correct

15 G.LO.07.FI.EG03: Read, interpret and use maps and grids

Interpret map to locate building

A   building in opposite direction

B   building in opposite direction

C   correct

16 M.UN.07.FI.EG11: Use equivalent calendar units

Translate days into weeks

A   too few weeks

B   correct

C   too many weeks

17 M.PS.07.FI.EG12: Solve one- or two-step word problems

Calculate elapsed time

A   correct

B   30 minutes = 1 hour

C   30 minutes = 2.5 hours

18 D.RE.07.FI.EG04: Solve problems using data

Interpret table to find maximum

A   minimum

B   correct

C   neither maximum nor minimum

19 **D.RE.07.FI.EG01:**   Read data

Translate data into bar graph

A   all 3 bars incorrect

B   correct

C   two incorrect bars

20 **D.RE.07.FI.EG04:**   Solve problems using data

Interpret pictograph with a key of 10

A   correct

B   incorrect category

C   did not use scale

21 **N.FL.07.FI.EG09:**   Add and subtract one-, two- and three-digit numbers

Add two 2-digit numbers

A   twice the sum

B   correct

C   10 less than sum

22 **N.MR.07.FI.EG10:**   Solve simple open sentences

Multiply two 1-digit numbers

A   added

B   used one incorrect factor

C   correct

23 **N.MR.07.FI.EG14:**   Solve simple division problems

Divide in word problem

A   correct

B   incorrect quotient and remainder

C   divisor = quotient

24 **M.PS.07.FI.EG14:**   Tell the amount of money in dollars and cents

Given bills, determine total value

A   five-dollar bill has value of one dollar

B   correct

C   five-dollar bill has value of ten dollars

25 M.UN.07.FI.EG13: Recognize equivalent sets of coins and bills

Identify matching set of coins given bill

A   dime has value of 25 cents

B   nickel has value of 25 cents

C   correct

26 N.ME.07.FI.EG20: Understand sum of unit fractions

Add three unit fractions

A   unit fraction given,
$1/x + 1/x + 1/x = 1/x$

B   adds numerator and denominator,
$1/x + 1/x + 1/x = 3/(3x)$

C   correct

27 N.ME.07.FI.EG16: Place 0 and halves on number line

Identify measurement shown on ruler

A   did not include fractional portion of measurement

B   correct

C   one inch greater

28 N.ME.07.FI.EG15: Recognize, name, represent and write unit fractions

Identify fraction represented in shaded figures

A   correct

B   too much shading

C   not enough shading

29 N.ME.07.FI.EG22: Use decimal fractions up to 2 decimals

Translate fraction to decimal

A   hundredths = tenths

B   correct

C   hundredths = thousandths

30 N.MR.07.FI.EG18: Compare and order fractions

Order three fractions from least to greatest

A   correct

B   mixed order

C   greatest to least

31　N.MR.07.FI.EG24:　Select appropriate numbers to solve problems

Add two 3-digit numbers in context

A　correct

B　included extra addend

C　included two extra addends

32　N.MR.07.FI.EG25:　Solve applied problems

Multiply in context

A　one of factors

B　added

C　correct

33　N.FL.07.FI.EG23:　Apply estimation in solving problems

Estimate subtraction in context

A　overestimate

B　overestimate

C　correct

34　A.FO.07.FI.EG02:　Represent information using algebra

Translate division word problem into number sentence

A　correct

B　multiplication sentence

C　addition sentence

35　A.FO.07.FI.EG02:　Represent information using algebra

Translate multiplication word problem into number sentence

A　addition sentence

B　division sentence

C　correct

MICHIGAN
Department of
Education

Michigan Department of Education
Bureau of Assessment and Accountability
608 West Allegan Street
P.O. Box 30008
Lansing, MI 48909
877-560-8378
www.mi.gov/mi-access

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