Functional Independence
Fall 2011

Mathematics

Item Descriptors

Grade 7

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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.06.FI.EG06**: Find the next number in a simple repeating pattern

   Identify pattern that matches given description

   A. increasing by given value, instead of decreasing
   B. increasing and decreasing
   C. correct

2. **N.MR.06.FI.EG06**: Find the next number in a simple repeating pattern

   Describe skip-counting pattern

   A. added half of correct value
   B. correct
   C. added first number in pattern

3. **N.MR.06.FI.EG05**: Create, describe, and extend simple number patterns

   Describe skip-counting pattern

   A. incorrect pattern
   B. correct
   C. incorrect pattern

4. **M.UN.06.FI.EG02**: Select appropriate units of measure

   Select unit of measure for volume

   A. unit of measure for length
   B. unit of measure for temperature
   C. correct

5. **M.UN.06.FI.EG04**: Measure lengths to the nearest half-inch

   Use ruler to measure length of rectangle

   A. incorrect length
   B. incorrect length
   C. correct

6. **M.UN.06.FI.EG08**: Know equivalent calendar units

   Know number of days in a week

   A. too few days
   B. too few days
   C. correct
7  **M.UN.06.FI.EG07:** Tell time on a clock to the nearest hour

    Identify clock displaying given time

    A  correct
    B  incorrect time
    C  incorrect time

8  **M.UN.06.FI.EG01:** Select and use standard tools for measurement

    Identify tool used to measure length

    A  correct
    B  tool used to measure temperature
    C  tool used to measure volume

9  **G.LO.06.FI.EG03:** Read, interpret and use maps and grids

    Interpret map to determine general direction

    A  opposite direction
    B  correct
    C  incorrect direction

10 **G.LO.06.FI.EG01:** Use relative position of objects on a plane and in space

    Describe relative position of two objects

    A  incorrect position
    B  correct
    C  incorrect position

11 **G.LO.06.FI.EG03:** Read, interpret and use maps and grids

    Interpret diagram to determine directional turns

    A  correct
    B  opposite turns
    C  incorrect turns

12 **M.PS.06.FI.EG09:** Solve one-step word problems

    Given time, find earlier time by given number of hours

    A  correct
    B  added, instead of subtracted
    C  incorrect subtraction
13 M.UN.06.FI.EG07: Tell time on a clock to the nearest hour

Tell time to nearest hour on an analog clock

A minute hand = hour hand
B correct
C sum of minute hand and hour hand

14 M.PS.06.FI.EG09: Solve one-step word problems

Given temperature and increase, calculate final temperature

A subtracted, instead of added
B starting temperature
C correct

15 N.ME.06.FI.EG01: Read, write and count using whole numbers to 10,000

Translate word form of number into standard form

A hundreds = tens
B correct
C transposed tens and ones

16 N.ME.06.FI.EG03: Express numbers to 10,000 using place value

Determine number in ones place of given number

A thousands place
B correct
C hundreds place

17 N.ME.06.FI.EG04: Compare and order numbers to 10,000

Determine number less than given number

A greater than given number
B greater than given number
C correct

18 N.ME.06.FI.EG03: Express numbers to 10,000 using place value

Translate expanded form of number into standard form

A correct
B tens = hundreds
C tens = hundreds, ones = tens
19  **D.RE.06.FI.EG03:** Describe the shape of data
    Describe data given in chart
    A  incorrect trend
    B  correct
    C  incorrect trend

20  **D.RE.06.FI.EG04:** Solve problems using data
    Calculate total from chart
    A  difference
    B  10 less than total
    C  correct

21  **D.RE.06.FI.EG01:** Read data
    Match given bar graph to table
    A  incorrect table
    B  incorrect table
    C  correct

22  **N.FL.06.FI.EG07:** Add and subtract one- and two-digit numbers
    Subtract two 2-digit numbers
    A  correct
    B  subtracted smaller values from larger values
    C  10 more than difference

23  **N.MR.06.FI.EG09:** Understand multiplication
    Match multiplication expression to array
    A  correct
    B  missing one column
    C  extra row and extra column

24  **N.MR.06.FI.EG08:** Solve simple number sentences for +/−
    Add two 2-digit numbers
    A  10 less than sum
    B  subtracted in ones place
    C  correct
25 N.MR.06.FI.EG09: Understand multiplication

Match multiplication expression to diagram

A  correct
B  diagram for addition
C  diagram for addition

26 N.FL.06.FI.EG10: Multiply numbers up to 5 x 5

Multiply in word problem

A  subtracted
B  added
C  correct

27 N.MR.06.FI.EG09: Understand multiplication

Given context, match to multiplication expression

A  incorrect expression
B  correct
C  incorrect expression

28 N.FL.06.FI.EG14: Apply estimation

Estimate difference

A  added
B  overestimate
C  correct

29 N.MR.06.FI.EG16: Solve applied problems

Determine fraction to match given context

A  correct
B  ratio remaining instead of ratio taken
C  incorrect fraction

30 N.MR.06.FI.EG15: Select appropriate numbers to solve problems

Select number sentence to match word problem

A  added one subtrahend
B  correct
C  added both subtrahends
31 N.MR.06.FI.EG15: Select appropriate numbers to solve problems

Select number sentence to match word problem

A subtracted, instead of added
B subtracted (resulting in negative difference)
C correct

32 M.UN.06.FI.EG10: Recognize equivalent sets of coins and bills

Identify matching set of coins given coins

A correct
B same set without 2 dimes
C set needs one more dime

33 M.PS.06.FI.EG11: Tell the amount of money in dollars and cents

Given photo of coins, calculate total value

A over by 10 cents
B correct
C dime is worth one cent

34 M.PS.06.FI.EG12: Add and subtract money in dollars and cents

Add money in dollars and cents

A subtracted cents
B incorrect addition with cents
C correct

35 M.PS.06.FI.EG11: Tell the amount of money in dollars and cents

Given photo of bills and coins, calculate total

A did not include all bills in total
B miscalculated total
C correct