Functional Independence
Fall 2011

Mathematics

Item Descriptors

Grade 6

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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.05.FI.EG09**: Create, describe, and extend simple number patterns

   Identify pattern that matches given description

   A  correct
   B  increasing pattern, but by incorrect amount
   C  increasing pattern, but by incorrect amount

2  **N.ME.05.FI.EG03**: Represent whole numbers to 10,000

   Given key & diagram, identify number

   A  11 less than total
   B  correct
   C  10 more than total

3  **M.UN.05.FI.EG02**: Select appropriate units of measure

   Identify unit of measure for distance

   A  unit of measure for volume
   B  unit of measure for temperature
   C  correct

4  **M.UN.05.FI.EG02**: Select appropriate units of measure

   Identify unit of measure for weight

   A  unit of measure for length
   B  unit of measure for time
   C  correct

5  **M.UN.05.FI.EG05**: Measure lengths to the nearest inch

   Measure length to nearest inch

   A  under by one inch
   B  correct
   C  over by one inch

6  **M.UN.05.FI.EG01**: Select and use standard tools for measurement

   Identify tool used to measure weight

   A  tool used to measure length
   B  tool used to measure volume
   C  correct
7 **M.PS.05.FI.EG08:** Solve one-step word problems

Add increase to temperature

- A subtracted
- B incorrect addition
- C correct

8 **G.GS.05.FI.EG01:** Identify, describe, and compare two-dimensional shapes

Given diagram, identify name of shape

- A incorrect 2-D shape
- B incorrect 2-D shape
- C correct

9 **G.LO.05.FI.EG02:** Use relative position of objects on a plane and in space

Determine relative position of two objects

- A correct
- B incorrect position
- C incorrect position

10 **M.UN.05.FI.EG09:** Identify and use different coins and bills

Given value in whole dollars, identify corresponding photo of bills

- A correct
- B 5-dollar bill has value of one dollar
- C 10-dollar bill has value of five dollars

11 **M.UN.05.FI.EG10:** Recognize equivalent sets of coins and bills

Identify matching set of coins given bill and coin

- A correct
- B nickels = quarters
  quarters = dimes
  dime = nickel
- C quarter = dollar
  dime = nickel

12 **M.PS.05.FI.EG12:** Add and subtract money in dollars and cents

Add money in word problem

- A omitted one of addends
- B correct
- C incorrect addition
13 **M.UN.05.FI.EG09:** Identify and use different coins and bills

Given value in dollars and cents, identify matching set of bills and coins

A 1-dollar bill has value of five dollars

B 5-dollar bill has value of ten dollars

C correct

14 **M.UN.05.FI.EG01:** Select and use standard tools for measurement

Identify tool used to measure weight

A tool used to measure time

B correct

C tool used to measure length

15 **M.PS.05.FI.EG03:** Measure and compare integer temperatures

Read thermometer in °F

A did not use scale

B correct

C nearest 10°

16 **M.PS.05.FI.EG08:** Solve one-step word problems

Subtract whole number of quarts

A subtrahend

B correct

C added

17 **D.RE.05.FI.EG02:** Draw predictions and conclusions from data

Interpret bar graph: find maximum value

A neither maximum nor minimum

B minimum, not maximum

C correct

18 **D.RE.05.FI.EG02:** Draw predictions and conclusions from data

Interpret bar graph: find maximum value

A neither maximum nor minimum

B minimum, not maximum

C correct
19 **D.RE.05.FI.EG03:** Describe the shape of data

Interpret trend of data in chart

- **A** incorrect trend
- **B** correct
- **C** incorrect trend

20 **N.ME.05.FI.EG01:** Read, write and count whole numbers to 10,000

Translate word form of number into standard form

- **A** incorrect in ones place
- **B** correct
- **C** transposed tens and ones

21 **N.ME.05.FI.EG02:** Recognize representations for whole numbers to 10,000

Translate standard form of number into expanded form

- **A** correct
- **B** sum of face value of each digit
- **C** thousands = hundreds hundreds = tens tens = ones

22 **N.ME.05.FI.EG06:** Compare and order numbers to 10,000

Determine number greater than given number

- **A** correct
- **B** less than given number
- **C** less than given number

23 **N.ME.05.FI.EG03:** Represent whole numbers to 10,000

Given key and blocks, translate to standard form

- **A** 100 less than total
- **B** 30 less than total
- **C** correct

24 **N.ME.05.FI.EG02:** Recognize representations for whole numbers to 10,000

Identify equivalent addition expression

- **A** correct
- **B** one incorrect addend
- **C** one incorrect addend
25 **N.ME.05.FI.EG07**: Count numbers to 10,000 by 1s and to 1,000 by 2s, 5s, 10s, and 100s

Determine number of objects in array

- **A** twice the correct total
- **B** correct
- **C** length + width

26 **N.ME.05.FI.EG07**: Count numbers to 10,000 by 1s and to 1,000 by 2s, 5s, 10s, and 100s

Count by 100's to find total

- **A** 500 less than total
- **B** 100 less than total
- **C** correct

27 **N.ME.05.FI.EG06**: Compare and order numbers to 10,000

Determine number greater than given number

- **A** correct
- **B** less than given number
- **C** less than given number

28 **N.ME.05.FI.EG05**: Express numbers to 10,000 using place value

Determine number with given value in tens place

- **A** correct
- **B** ones place = tens place
- **C** hundreds place = tens place

29 **N.MR.05.FI.EG13**: Solve simple open sentences for +/-

Find missing addend in number sentence

- **A** 10 less than addend
- **B** correct
- **C** 10 greater than addend

30 **N.FL.05.FI.EG11**: Use addition properties of 0

Solve word problem with 0 as one of addends

- **A** half of first addend
- **B** correct
- **C** twice the first addend
31 **N.FL.05.FI.EG11**: Use addition properties of 0

Add 0 to 2-digit number

A correct
B added 1
C added 10

32 **N.FL.05.FI.EG12**: Add and subtract two numbers with 1 or 2 digits

Subtract 1-digit number from 2-digit number

A correct
B added
C minuend

33 **N.MR.05.FI.EG15**: Select appropriate numbers to solve problems

Add three 2-digit numbers

A sum of first two addends
B sum of second two addends
C correct

34 **N.FL.05.FI.EG14**: Apply estimation in solving problems

Estimate difference

A underestimate
B correct
C overestimate

35 **N.FL.05.FI.EG14**: Apply estimation in solving problems

Estimate sum

A underestimate (subtracted)
B correct
C overestimate