Functional Independence
Fall 2011

Mathematics

Item Descriptors

Grade 4

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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. **G.SR.03.FI.EG04:** Predict the next element in a simple geometric pattern
   - Determine the next shape in a geometric pattern
   - A correct
   - B incorrect shape
   - C incorrect shape

2. **G.SR.03.FI.EG04:** Predict the next element in a simple geometric pattern
   - Determine the next shape in a geometric pattern
   - A incorrect shape
   - B incorrect shape
   - C correct

3. **N.ME.03.FI.EG01:** Read, write and count whole numbers to 100
   - Translate word form of number into standard form
   - A transposed tens and ones
   - B correct
   - C tens = hundreds

4. **N.MR.03.FI.EG09:** Create, describe, and extend number patterns
   - Find next number in skip-counting pattern
   - A subtracted 10, instead of adding 10
   - B added 1, instead of adding 10
   - C correct

5. **G.GS.03.FI.EG01:** Identify common two-dimensional shapes
   - Given diagram, determine number of corners of 2-D shape
   - A correct
   - B one more corner than total
   - C two more corners than total

6. **G.LO.03.FI.EG02:** Use relative position of objects on a plane and in space
   - Describe relative position of two objects
   - A incorrect position
   - B incorrect position
   - C correct
7 N.ME.03.FI.EG04: Compose and decompose numbers to 30

Given key, identify diagram that shows the given number

A correct
B transposed tens and ones
C tens = ones

8 N.ME.03.FI.EG04: Compose and decompose numbers to 30

Given key, identify diagram that shows the given number

A correct
B transposed tens and ones
C tens = ones

9 N.ME.03.FI.EG02: Recognize representations for whole numbers to 100

Identify the diagram with same number of shapes as given diagram

A correct
B one more shape
C two fewer shapes

10 D.RE.03.FI.EG02: Read pictographs

Read pictograph with scale of 1

A used scale of two, or incorrect category
B incorrect category
C correct

11 D.RE.03.FI.EG02: Read pictographs

Read pictograph with scale of 1

A correct
B one more than total
C one less than total

12 N.MR.03.FI.EG09: Create, describe, and extend number patterns

Find next number in skip-counting pattern

A added 1 to previous number
B correct
C added 10, instead of 5
13 **N.ME.03.FI.EG03**: Represent whole numbers to 100

Given key & diagram, identify number

A  omitted ones  
B  one less than total  
C  correct

14 **N.ME.03.FI.EG05**: Compare and order numbers to 100

Determine number less than given number

A  correct  
B  greater than given number  
C  greater, but ones place is less

15 **N.ME.03.FI.EG06**: Count to 100 by ones, 2s, 5s and 10s

Find next number in skip-counting pattern

A  added 15, instead of 5  
B  added 10, instead of 5  
C  correct

16 **N.ME.03.FI.EG02**: Recognize representations for whole numbers to 100

Given key, identify diagram that shows the given number

A  transposed tens and ones  
B  correct  
C  omitted ones

17 **M.PS.03.FI.EG02**: Compare length and weight of objects

Compare heights of three children

A  shortest, not tallest  
B  correct  
C  neither shortest nor tallest

18 **M.UN.03.FI.EG05**: Tell time on a clock to the hour

Tell time on the hour on analog clock

A  difference in hours between hour and minute hands  
B  correct  
C  minute hand shows hours
19 **M.UN.03.FI.EG03**: Use common words for the parts of the day

Identify name of day after given day

A day before given day
B neither day before nor day after given day
C correct

20 **M.PS.03.FI.EG02**: Compare length and weight of objects

Compare length of two objects

A incorrect comparison
B correct
C incorrect comparison

21 **M.PS.03.FI.EG06**: Solve one-step word problems

Add lengths in miles

A correct
B incorrect addition
C subtracted

22 **M.PS.03.FI.EG09**: Add and subtract money in dollars only or in cents only

Subtract money in dollars

A correct
B incorrect subtraction or subtrahend
C incorrect subtraction

23 **M.PS.03.FI.EG09**: Add and subtract money in dollars only or in cents only

Given photo of coins, determine value

A dimes = pennies
B dimes = nickels
C correct

24 **M.UN.03.FI.EG07**: Identify different denominations of coins and bills

Given photo of coin, determine value

A correct
B incorrect value
C incorrect value
25 **N.MR.03.FI.EG10:** Compare two or more sets

Compare number of elements in two sets

A incorrect comparison
B incorrect comparison
C correct

26 **N.FL.03.FI.EG14:** Add up to three one-digit numbers

Add three 1-digit numbers

A correct
B two less than sum
C sum of first and second addend

27 **N.FL.03.FI.EG16:** Calculate sums and differences

Add 1-digit number to 2-digit number

A smaller values subtracted from greater values in ones place
B correct
C increases tens place by one

28 **N.MR.03.FI.EG11:** Understand the relationship between addition and subtraction

Identify related subtraction sentence given addition sentence

A unrelated subtraction sentence
B correct
C unrelated subtraction sentence

29 **N.FL.03.FI.EG12:** Know all the addition facts up to 10 + 10

Add two 1-digit numbers

A one less than sum
B correct
C one more than sum

30 **N.MR.03.FI.EG11:** Understand the relationship between addition and subtraction

Given subtraction sentence, find sum of related addition sentence

A sum of all three numbers in subtraction sentence
B sum of minuend and subtrahend
C correct