Functional Independence
Fall 2012
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

Find missing number in skip-counting pattern

A  difference between adjacent numbers
B  difference between first and last numbers
C  correct

2  N.MR.05.FI.EG10: Find the next number in a simple repeating pattern

Describe how to find next number in skip-counting pattern

A  correct
B  correct operation but under by 2
C  correct operation but under by 1

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

Select tool to measure length

A  tool to measure time
B  correct
C  tool to measure temperature

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

Use thermometer to measure temperature

A  correct
B  under by 4 degrees
C  under by 2 degrees
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.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

7 M.UN.05.FI.EG04: Approximate temperature

Identify most likely temperature given context
A correct
B too high of a temperature
C higher temperature than in B

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

Add increase to temperature
A subtracted
B incorrect addition
C correct

9 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

10 G.LO.05.FI.EG02: Describe and 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
**Item Descriptors**

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11 **M.PS.05.FI.EG06:** Measure and compare lengths, weights, and volumes

Determine greatest weight in pounds given three weights

- **A** intermediate weight
- **B** least weight
- **C** correct

12 **M.UN.05.FI.EG07:** Tell time on a radial or digital clock to the nearest hour

Tell time on a radial clock

- **A** correct
- **B** one hour over
- **C** location of minute hand

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.EG10:** Recognize equivalent sets of coins and bills

Identify set of coins equivalent to given set

- **A** correct
- **B** 25 cents over
- **C** 10 cents over

15 **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

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

Subtract money in word problem

- **A** 10 cents = $1
- **B** correct
- **C** added
17 D.RE.05.FI.EG03: Describe the shape of data using informal language

Interpret trend of data in table

A correct
B incorrect trend
C incorrect trend

18 D.RE.05.FI.EG02: Draw predictions and conclusions from data in tables, graphs, and charts

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 using informal language

Interpret trend of data in chart

A incorrect trend
B correct
C incorrect trend

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

Translate word form to standard form

A correct
B a,bcd = ab,0cd
C a,bcd = a0b,0cd

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

Identify equivalent addition expression

A correct
B one incorrect addend
C one incorrect addend

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

Translate standard form to expanded form

A a,bcd = a + b + c + d
B a,bcd = a00 + b0 + c + d
C correct
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.EG05: Express numbers to 10,000 using place value

Determine number with value in tens place

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

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

Calculate number of objects in array

A twice the correct total
B correct
C length + width

26 N.ME.05.FI.EG08: Identify and place whole numbers on a number line

Identify shape at given location on number line in increments of 5

A shape with location 10 less than correct location
B shape with location 20 less than correct location
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.EG08: Identify and place whole numbers on a number line

Identify shape at given location on number line in increments of 500

A shape with location 3,000 less than correct location
B correct
C shape with location 2,000 greater than correct location

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

Add 3-digit number to zero

A incorrect difference
B subtracted 5
C correct

30 N.MR.05.FI.EG13: Solve simple open sentences for addition and subtraction

Subtract two 2-digit numbers

A added
B over by 10
C correct

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 each

Subtract two 2-digit numbers in context

A correct
B subtracted smaller values from larger values
C over by 10

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

Select correct 2-digit addends and add

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 cost in dollars

A  underestimate by $10
B  correct
C  overestimate by $10

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

Select correct 2-digit addends and add

A  sum of first two addends
B  sum of first and third addends
C  correct