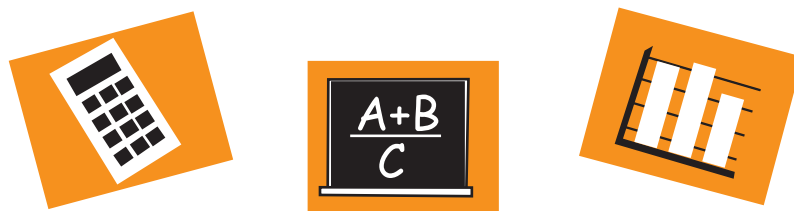


Functional Independence

Fall 2013



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.EG05: Create, describe, and extend simple number patterns

Find next number in decreasing skip-counting pattern

- A** correct
- B** amount of decrease
- C** last number given in pattern

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

Describe amount skip-counting pattern is increasing

- A** 20 less than correct amount
- B** correct
- C** 20 more than correct amount

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

Identify unit for weight

- A** unit of length
- B** unit of volume (capacity)
- C** correct

4 M.UN.06.FI.EG08: Know equivalent calendar units

Translate years into months

- A** 1 year = 6 months
- B** correct
- C** 1 year = 15 months

5 M.UN.06.FI.EG08: Know equivalent calendar units

Know number of days in a week

- A** not enough days
- B** not enough days
- C** correct

6 M.UN.06.FI.EG07: Tell time on a radial or digital clock to the nearest hour

Tell time on radial clock

- A** location of minute hand
- B** 2 hours earlier
- C** correct

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

Given radial clock, tell time it will be after elapsed time

- A** correct
- B** number of elapsed hours
- C** time on clock displayed

8 G.LO.06.FI.EG01: Describe and use relative position of objects on a plane and in space

Determine where an object in picture is placed relative to other object

- A** correct
- B** object placed in opposite position
- C** object with incorrect position

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

Measure length to the nearest half-inch

- A** half-inch less than correct length
- B** correct
- C** one inch more than correct length

- 10 G.LO.06.FI.EG03:** Read, interpret, and use maps and grids with legends

Identify correct set of directions given map

- A** incorrect directions
- B** correct
- C** incorrect directions

- 11 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

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

Translate word form of number into standard form

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

- 13 N.ME.06.FI.EG02:** Recognize equivalent representations for whole numbers to 10,000

Determine value shown with number blocks

- A** hundreds block = 10
- B** correct
- C** ones block = 10

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

Identify numeral with given place value

- A** over by factor of 100
- B** over by factor of 10
- C** correct

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

Determine numeral with given place value

- A** over by factor of 10
- B** correct
- C** under by factor of 100

- 16 N.ME.06.FI.EG04:** Compare and order numbers to 10,000

Identify number greater than given number

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

- 17 D.RE.06.FI.EG03:** Describe the shape of data using informal language

Describe data given in chart

- A incorrect trend
- B correct
- C incorrect trend

- 18 D.RE.06.FI.EG01:** Read data from charts, tables, graphs, tallies, and pictographs

Match given bar graph to table

- A incorrect table
- B incorrect table
- C correct

- 19 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

- 20 N.MR.06.FI.EG13:** Represent multiplication and division using objects, words, and symbols

Divide in context of equal sharing

- A less than correct quotient
- B correct
- C greater than correct quotient

- 21 D.RE.06.FI.EG04:** Solve problems using data in tables, graphs, tallies, and pictographs

Calculate total from chart

- A difference
- B 10 less than total
- C correct

22 N.FL.06.FI.EG07: Add and subtract one- and two-digit numbers

Subtract word form of two 2-digit numbers

- A** under by 8
- B** correct
- C** subtracted smaller values from larger values

23 G.LO.06.FI.EG02: Find and name locations using simple coordinate systems

Interpret map to find house

- A** street that is parallel to and just south of correct street
- B** correct
- C** street that is perpendicular to correct street

24 N.MR.06.FI.EG08: Solve simple number sentences for addition and subtraction

Add two 2-digit numbers

- A** 10 less than sum
- B** subtracted in ones place
- C** correct

25 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

26 N.FL.06.FI.EG14: Apply estimation in solving problems

Estimate subtraction in context

- A** 10 fewer than correct estimate
- B** correct
- C** 10 more than correct estimate

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

Add in context

- A** mean
- B** 2nd addend
- C** correct

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

Select correct addition expression

- A** incorrect addend
- B** incorrect addend
- C** correct

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

Translate multiplication sentence into addition expression

- A** $a \times b = a + b$
- B** correct
- C** $a \times b = b \times b$

30 N.MR.06.FI.EG12: Understand the relationship between multiplication and division

Identify related division equations

- A** incorrect division sentence
- B** incorrect division sentence
- C** correct

31 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

32 N.FL.06.FI.EG14: Apply estimation in solving problems

Estimate multiplication in context

- A** estimate of first factor
- B** used incorrect 2nd factor
- C** correct

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

Identify set of bills with same value as given bill

- A** correct
- B** set of bills with less value
- C** set of bills with less value

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

Determine decimal value of given bills and coins

- A** quarter = 5 cents
- B** correct
- C** 5-dollar bill = \$50,
10-dollar bill = \$1

- 35 M.PS.06.FI.EG12:** Add and subtract money in dollars and cents

Add money in decimal notation

- A** correct
- B** subtracted
- C** did not include ones and tenths place from second addend





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