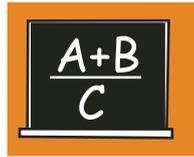


# Functional Independence

Fall 2012



## Mathematics

### *Item Descriptors*

Grade **5**

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**DIRECTIONS:** Read each question. Choose the **BEST** answer for each question.

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

Determine next number in skip-counting pattern

- A** added one to previous number
- B** correct
- C** over by 5

- 2 N.MR.04.FI.EG09:** Create, describe, and extend simple number patterns

Determine next number in skip-counting pattern

- A** under by 8
- B** under by 8
- C** correct

- 3 M.UN.04.FI.EG03:** Measure lengths to the nearest inch

Measure length to nearest inch

- A** one inch less than correct length
- B** correct
- C** two inches less than correct length

- 4 M.UN.04.FI.EG01:** Select and use standard tools for measurement

Identify tool used to measure volume

- A** correct
- B** tool used to measure length
- C** tool used to measure temperature

- 5 M.PS.04.FI.EG04:** Measure and compare lengths and weights

Compare lengths of two objects

- A** incorrect comparison
- B** incorrect comparison
- C** correct

- 6 M.PS.04.FI.EG06:** Solve one-step word problems

Add two weights

- A** subtracted
- B** correct
- C** twice the second addend

- 7 G.GS.04.FI.EG01:** Identify, describe, and compare two-dimensional shapes

Determine number of sides in polygon

- A** correct
- B** one more than total
- C** two more than total

- 8 G.LO.04.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

- 9 M.UN.04.FI.EG08:** Match denominations of coins or bills

Given photo of coins, match to photo with same value

- A** two nickels too many
- B** one nickel (or 5 pennies) under
- C** correct

- 10 M.UN.04.FI.EG07:** Identify different denominations of coins and bills

Identify photo of bill that is worth enough for given purchase

- A** bill with least value
- B** bill with insufficient value
- C** correct

- 11 M.PS.04.FI.EG09:** Tell the amount of money

Determine how much money is shown

- A** each bill = \$1
- B** correct
- C** counted 5-dollar bill as \$10

- 12 M.PS.04.FI.EG10:** Add and subtract money in dollars only or in cents only

Add money in cents

- A** subtracted
- B** incorrect addition in tens place
- C** correct

- 13 M.UN.04.FI.EG02:** Select appropriate units of measure

Determine unit used to measure length

- A** unit of measure for temperature
- B** correct
- C** unit of measure for time

- 14 M.UN.04.FI.EG05:** Tell time on a radial or digital clock to the hour

Tell time on radial clock

- A** one hour under
- B** correct
- C** one hour over

- 15 D.RE.04.FI.EG03:** Solve problems using data in tables, graphs, tallies, and pictographs

Read pictograph with scale of 1

- A** sum of first two categories, not all three
- B** sum of last two categories, not all three
- C** correct

- 16 D.RE.04.FI.EG02:** Read tables, graphs, tallies, and pictographs

Interpret bar graph

- A** number of categories
- B** included other category in total
- C** included other category in total

- 17 N.ME.04.FI.EG01:** Read, write, and count whole numbers to 1,000

Determine number of shapes shown

- A** under by 1
- B** correct
- C** over by 1

- 18 N.ME.04.FI.EG02:** Recognize equivalent representations for whole numbers to 1,000

Determine addition expression that sums to given total

- A** correct
- B** over by 2
- C** over by 1

- 19 N.ME.04.FI.EG05:** Compare and order numbers to 1,000

Identify number greater than given number

- A** number with least value
- B** less than given number
- C** correct

- 20 N.ME.04.FI.EG04:** Express numbers to 1,000 using place value

Translate standard form to expanded form

- A**  $abc = a + b + c$
- B**  $abc = a00 + b + c$
- C** correct

- 21 N.ME.04.FI.EG07:** Use ordinals to identify position in a sequence

Identify ordinal position of object

- A** object shown n times
- B** correct
- C** object that is not a candidate

- 22 N.ME.04.FI.EG08:** Identify and place whole numbers on a number line that begins at zero

Identify missing value on number line

- A** correct
- B** shown value
- C** shown value

**23 N.ME.04.FI.EG03:** Represent whole numbers to 1,000

Given key, identify diagram that shows number

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

**24 N.ME.04.FI.EG03:** Represent whole numbers to 1,000

Given key, identify number that matches diagram

- A** total number of blocks
- B** under by 40
- C** correct

**25 N.MR.04.FI.EG13:** Model addition and subtraction for numbers less than 100

Translate context to subtraction number sentence

- A** correct
- B** addition sentence with given values
- C** addition sentence with one of given values

**26 N.FL.04.FI.EG11:** Add and subtract two numbers with 1 or 2 digits each

Subtract two 1-digit numbers

- A** incorrect subtraction
- B** correct
- C** subtrahend

**27 N.MR.04.FI.EG13:** Model addition and subtraction for numbers less than 100

Translate addition sentence into words

- A** correct
- B** subtraction
- C** subtraction

**28 N.MR.04.FI.EG14:** Solve simple open sentences for addition and subtraction

Solve addition sentence for sum

- A** correct
- B** over by 10
- C** over by 20

**29 N.FL.04.FI.EG15:** Apply estimation in solving problems

Estimate sum

- A** underestimate
- B** correct
- C** overestimate

**30 N.MR.04.FI.EG16:** Select appropriate numbers to solve problems

Determine number of books read by two students given number of books read by three students

- A** correct
- B** over by 1 or included incorrect student
- C** over by 2 or included incorrect student







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