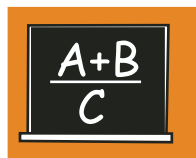


# Functional Independence

Fall 2012



## Mathematics

*Item Descriptors*

**Grade 7**

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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.06.FI.EG05:** Create, describe, and extend simple number patterns

Identify next term in pattern of sums

- A** second addend over by 2
- B** correct
- C** second addend under by 2

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

Identify pattern that matches given description

- A** increasing by given value, instead of decreasing
- B** increasing and decreasing
- C** correct

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

Select unit of measure for volume

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

**4 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

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

Tell time to nearest hour on analog clock

- A** minute hand = hour hand
- B** correct
- C** sum of minute hand and hour hand

- 6 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

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

Given time, identify clock

- A** correct
- B** incorrect clock
- C** incorrect clock

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

Interpret map to determine driving direction

- A** opposite direction
- B** correct
- C** incorrect direction



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

Identify addends given sum

- A**  $ab = a + b0$
- B**  $ab = a + b$
- C** correct

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

Determine number less than given number

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

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

Translate expanded form to standard form

- A** correct
- B**  $a,000+b0+c=a,b0c$
- C**  $a,000+b0+c=a,bc0$

- 19 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

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

Interpret bar graph

- A** incorrect month
- B** incorrect month
- C** correct

- 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 N.MR.06.FI.EG09:** Understand multiplication

Match multiplication expression to array

- A** correct
- B** missing one column
- C** extra row and extra column

**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.ME.06.FI.EG11:** Understand division

Translate word problem to division expression

- A** addition expression
- B** correct
- C** subtraction expression

**26 N.FL.06.FI.EG10:** Multiply numbers up to  $5 \times 5$

Multiply in word problem

- A** subtracted
- B** added
- C** correct

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

Translate word problem to division expression

- A** subtraction expression
- B** addition expression
- 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.EG16:** Solve applied problems

Determine fraction of cookies eaten

- A** correct
- B** ratio of cookies eaten to remaining
- C** incorrect fraction

**30 N.MR.06.FI.EG16:** Solve applied problems

Subtract in word problem

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

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

Estimate addition in word problem

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

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

Given coins, identify matching set of coins

- A** correct
- B** same set without 2 dimes
- C** set needs one more dime

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

Given photo of coins, calculate value

- A** over by 10 cents
- B** correct
- C** dime is worth one cent

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

Given decimal notation of money, identify matching photo of bills and coins

- A** correct
- B** \$1 = \$10, set needs nickel
- C** set needs one more dime

**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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