

# Functional Independence

Fall 2010



## Mathematics

### *Item Descriptors*

**Grade 7**

**MICHIGAN STATE BOARD OF EDUCATION**  
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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.EG06:** Find the next number in a simple repeating pattern  
Describe skip-counting pattern
- A** added half of correct value
  - B** correct
  - C** added first number in pattern
- 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 N.MR.06.FI.EG05:** Create, describe, and extend simple number patterns  
Describe skip-counting pattern
- A** incorrect pattern
  - B** correct
  - C** incorrect pattern
- 4 M.UN.06.FI.EG02:** Select units of measure  
Select unit of measure for volume
- A** unit of measure for length
  - B** unit of measure for temperature
  - C** correct
- 5 M.UN.06.FI.EG07:** Tell time on a clock to the nearest hour  
Identify clock displaying given time
- A** correct
  - B** incorrect time
  - C** incorrect time
- 6 M.UN.06.FI.EG01:** 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

- 7 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

- 8 M.UN.06.FI.EG08:** Know equivalent calendar units

Know number of days in a week

- A** too few days
- B** too few days
- C** correct

- 9 G.LO.06.FI.EG01:** Use relative position of objects on a plane and in space

Describe relative position of two objects

- A** incorrect position
- B** correct
- C** incorrect position

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

Interpret map to determine general direction

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

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

Interpret diagram to determine directional turns

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

- 12 M.UN.06.FI.EG07:** Tell time on a clock to the nearest hour

Tell time to nearest hour on an analog clock

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

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

Given time, find earlier time by given number of hours

- A** correct
- B** added, instead of subtracted
- C** incorrect subtraction

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

Given temperature and increase, calculate final temperature

- A** subtracted, instead of added
- B** starting temperature
- C** correct

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

Translate word form of number into standard form

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

- 16 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

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

Translate expanded form of number into standard form

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

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

Determine number in ones place of given number

- A** thousands place
- B** correct
- C** hundreds place



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

Given context, match to multiplication expression

- A** incorrect expression
- B** correct
- C** incorrect expression

- 28 N.FL.06.FI.EG14:** Apply estimation

Estimate difference

- A** added
- B** overestimate
- C** correct

- 29 N.MR.06.FI.EG15:** Select numbers to solve problems

Select number sentence to match word problem

- A** subtracted, instead of added
- B** subtracted (resulting in negative difference)
- C** correct

- 30 N.MR.06.FI.EG15:** Select numbers to solve problems

Select number sentence to match word problem

- A** added one subtrahend
- B** correct
- C** added both subtrahends

- 31 N.MR.06.FI.EG16:** Solve applied problems

Determine fraction to match given context

- A** correct
- B** ratio remaining instead of ratio taken
- C** incorrect fraction

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

Given photo of bills and coins, calculate total

- A** did not include all bills in total
- B** miscalculated total
- C** correct



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

Identify matching set of coins given coins

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

- 34 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

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

Given photo of coins, calculate total value

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





