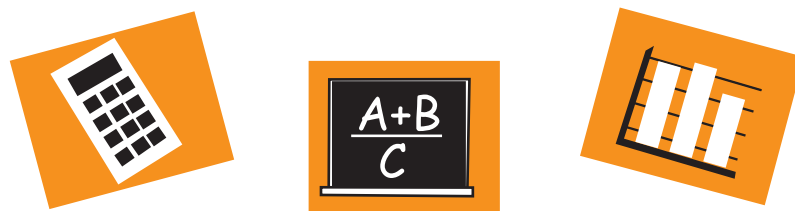


# Functional Independence

## Fall 2013



# Mathematics

## *Item Descriptors*

# Grade 4

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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 G.SR.03.FI.EG04:** Predict the next element in a simple geometric pattern

Identify next shape in geometric pattern

- A** correct
- B** incorrect shape
- C** incorrect shape

**2 G.SR.03.FI.EG04:** Predict the next element in a simple geometric pattern

Identify next shape in geometric pattern

- A** incorrect shape
- B** correct
- C** incorrect shape

**3 N.MR.03.FI.EG09:** Create, describe, and extend simple number patterns

Find next number in skip-counting pattern

- A** added 1 to previous number
- B** correct
- C** added 10, instead of 5

**4 N.ME.03.FI.EG06:** Count to 100 by 1s, 2s, 5s, and 10s

Find missing number in addition skip-counting pattern

- A** skip counted by 1
- B** correct
- C** skip counted by 3

**5 G.GS.03.FI.EG01:** Identify common two-dimensional shapes

Identify diagram with given number of sides

- A** diagram with one less side
- B** correct
- C** diagram with six more sides

**6 D.RE.03.FI.EG01:** Collect and explore data through counting

Identify set with given number of elements

- A** incorrect set
- B** incorrect set
- C** correct

**7 N.ME.03.FI.EG03:** Represent whole numbers to 100

Given key & diagram, identify number

- A** omitted ones
- B** one less than total
- C** correct

**8 N.ME.03.FI.EG04:** Compose and decompose numbers to 30

Given key, identify diagram that shows the given number

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

**9 N.ME.03.FI.EG02:** Recognize equivalent representations for whole numbers to 100

Given key, identify diagram that shows number

- A** transposed tens and ones
- B** correct
- C** omitted ones

**10 N.ME.03.FI.EG01:** Read, write, and count whole numbers to 100

Count number of tally marks

- A** 5 fewer
- B** correct
- C** 5 more

- 11 D.RE.03.FI.EG03:** Solve problems using information in pictographs

Read pictograph with scale of 1

- A** correct
- B** incorrect category
- C** incorrect category

- 12 G.LO.03.FI.EG02:** Describe and use relative position of objects on a plane and in space

Identify item positioned relative to another item

- A** correct
- B** incorrect item
- C** incorrect item

- 13 N.ME.03.FI.EG07:** Understand a number line

Know numbers left/right of a number are less than/greater than the number

- A** incorrect conclusion
- B** incorrect conclusion
- C** correct

- 14 N.ME.03.FI.EG08:** Identify and place whole numbers on a number line that begins at zero

Identify number that comes after given number

- A** before
- B** before
- C** correct

- 15 N.ME.03.FI.EG08:** Identify and place whole numbers on a number line that begins at zero

Identify location of star on number line

- A** location of first unlabeled point
- B** location of point to left of star
- C** correct

- 16 M.PS.03.FI.EG06:** Solve one-step word problems

Add lengths in miles

- A** correct
- B** incorrect addition
- C** subtracted

**17 M.PS.03.FI.EG02:** Compare the length and weight of objects

Compare heights of two objects

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

**18 M.UN.03.FI.EG05:** Tell time on a radial or digital clock to the hour

Tell time on analog clock

- A** difference in hours between hour and minute hands
- B** correct
- C** minute hand shows hours

**19 M.UN.03.FI.EG07:** Identify different denominations of coins and bills

Given set of coins, identify number of particular coin

- A** number of different coin
- B** number of different coin
- C** correct

**20 M.UN.03.FI.EG03:** Use common words for the parts of the day

Identify day after given day

- A** day before given day
- B** correct
- C** 2 days after given day

**21 M.PS.03.FI.EG06:** Solve one-step word problems

Subtract lengths in context

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

**22 N.ME.03.FI.EG04:** Compose and decompose numbers to 30

Compose numbers given in tens and ones

- A** correct
- B** did not include the ones
- C** did not include one of the tens

**23 M.PS.03.FI.EG02:** Compare the length and weight of objects

Compare heights of three children

- A** shortest, not tallest
- B** correct
- C** neither shortest not tallest

**24 N.ME.03.FI.EG05:** Compare and order numbers to 100

Compare two 1-digit numbers

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

**25 N.MR.03.FI.EG13:** Apply knowledge of fact families

Find missing addend in addition equation

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

**26 N.FL.03.FI.EG12:** Know all addition facts up to  $10 + 10$  and solve related subtraction problems

Subtract one-digit number from two-digit number

- A** correct
- B** one more than difference
- C** subtracted smaller values from larger values

**27 N.FL.03.FI.EG16:** Calculate sums and differences

Add time in context

- A** incorrect sum
- B** incorrect sum
- C** correct



**28 M.PS.03.FI.EG09:** Add and subtract money in dollars only or in cents only

Add cents in context

- A** 2nd addend
- B** correct
- C** over by 25 cents

**29 N.MR.03.FI.EG17:** Model addition and subtraction for numbers less than 20

Identify number sentence to model addition

- A** subtraction sentence
- B** incorrect addition sentence
- C** correct

**30 N.MR.03.FI.EG11:** Understand the relationship between addition and subtraction

Given subtraction sentence, find sum of related addition sentence

- A** sum of all three numbers in subtraction sentence
- B** sum of minuend and subtrahend
- C** correct







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