Functional Independence
Mathematics

Official Released Items

Grade 4

Fall 2009
Official Released Items
The Grade 4 Functional Independence Mathematics Assessment was administered for the first time in Fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will annually release a portion of the items that are administered on the assessment. This booklet contains released items from the Fall 2009 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are not secure and may be copied and distributed as needed.

The table below lists the number of core and released items administered on the Fall 2009 Grade 4 assessment booklet. Core items are those that count toward students’ scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

<table>
<thead>
<tr>
<th>Mathematics Strand</th>
<th>Number of Core Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numbers and Operations</td>
<td>16</td>
</tr>
<tr>
<td>Measurement</td>
<td>8</td>
</tr>
<tr>
<td>Geometry</td>
<td>4</td>
</tr>
<tr>
<td>Data and Probability</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Core Items/Points</strong></td>
<td><strong>30</strong></td>
</tr>
<tr>
<td>Released Items</td>
<td>10</td>
</tr>
</tbody>
</table>

(Numbers vary by strand and topic.)

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DIRECTIONS: Read each question. Choose the BEST answer for each question.
Use the pattern below to answer question R1.

A  

B  

C
Use the picture below to answer question R2.

![Diagram of a ball on a block]

R2 The ball is _____ the block.

A  above

B  below

C  behind
Use the number line below to answer question R3.

R3  Which shape shows a number less than 4?

A  □

B  🔴

C  △
R4  Ray put a marble in his pocket for each mile that he walked.

How many miles did Ray walk?

A  4
B  5
C  9
R5  Compare the numbers 13 and 20.

13 is _____ 20

What words go in the blank?

A  greater than

B  less than

C  equal to
Use the chart below to answer question R6.

**Book Weights**

<table>
<thead>
<tr>
<th>Book</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>4 pounds</td>
</tr>
<tr>
<td>History</td>
<td>7 pounds</td>
</tr>
<tr>
<td>Spelling</td>
<td>2 pounds</td>
</tr>
<tr>
<td>Science</td>
<td>6 pounds</td>
</tr>
</tbody>
</table>

**R6** Which book is **lighter** than the Math book?

A  History  
B  Spelling  
C  Science
R7  What time is shown?

A  12:00
B  3:00
C  8:00
Use the bill below to answer question **R8**.

![One Dollar Bill](image)

**R8** Which set of coins has the **same** value as the bill shown above?

A

B

C
R9  There are 3 apples on the table and 7 apples on the desk. 

How many apples are there altogether?

A  10

B  7

C  5
**R10** Look at the number sentence below.

\[ 10 - 2 = 8 \]

Which number sentence is related to the sentence above?

A. \[ 8 + 2 = 10 \]

B. \[ 10 + 8 = 18 \]

C. \[ 2 + 5 = 7 \]
Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

Because the assessment was administered during the fall of the school year, only content from the previous grade level was measured on the assessment. For example, items eligible for the Grade 4 assessment will measure the Grade 3 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at www.mi.gov/mi-access.

<table>
<thead>
<tr>
<th>Released Item Number</th>
<th>EGLCE Code</th>
<th>STRAND or Abbreviated Extended GLCE Descriptor</th>
<th>Answer Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>R4</td>
<td>D.RE.03.FI.EG01</td>
<td>Collect and explore data</td>
<td>C</td>
</tr>
<tr>
<td>R1</td>
<td>G.SR.03.FI.EG04</td>
<td>Predict the next element in a simple geometric pattern</td>
<td>A</td>
</tr>
<tr>
<td>R2</td>
<td>G.LO.03.FI.EG02</td>
<td>Use relative position of objects on a plane and in space</td>
<td>A</td>
</tr>
<tr>
<td>R6</td>
<td>M.PS.03.FI.EG02</td>
<td>Compare length and weight of objects</td>
<td>B</td>
</tr>
<tr>
<td>R7</td>
<td>M.UN.03.FI.EG05</td>
<td>Tell time on a clock to the hour</td>
<td>B</td>
</tr>
<tr>
<td>R8</td>
<td>M.UN.03.FI.EG08</td>
<td>Match denominations coins/bills</td>
<td>B</td>
</tr>
<tr>
<td>R3</td>
<td>N.ME.03.FI.EG07</td>
<td>Understand a number line</td>
<td>B</td>
</tr>
<tr>
<td>R5</td>
<td>N.ME.03.FI.EG05</td>
<td>Compare and order numbers to 100</td>
<td>B</td>
</tr>
<tr>
<td>R9</td>
<td>N.FL.03.FI.EG14</td>
<td>Add up to three one-digit numbers</td>
<td>A</td>
</tr>
<tr>
<td>R10</td>
<td>N.MR.03.FI.EG11</td>
<td>Understand the relationship of + and -</td>
<td>A</td>
</tr>
</tbody>
</table>