Functional Independence
Mathematics

Official Released Items

Grade 5

Fall 2005
Official Released Items
The Functional Independence Mathematics Assessments for grades 3 through 8 were administered for the first time in fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will release a portion of the items that were administered in each grade each year. This booklet contains released items from the fall 2005 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 from the fall 2005 assessment booklets. 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>10</td>
</tr>
<tr>
<td>Geometry</td>
<td>2</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><strong>Released Items</strong></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

(Number of core items may vary by strand and topic.)
R1  Sara bought 4 tickets for a school play.

The numbers on the tickets follow a pattern.

What number should be on the last ticket?

A  50
B  40
C  30
Use the figure below to answer question R2.

**Key**

\[\begin{array}{ccccccc}
\square & \square & \square & \square & \square & \square & \square \\
\end{array}\quad = 10 \quad \square = 1\]

**R2** Which figure on the next page shows 29?
R3  Which unit can be used to measure your height?

A  cups
B  pounds
C  inches
R4 Which measuring tool can be used to measure the length of a piece of wood?

A Thermometer

B Measuring Cup

C Ruler

1 cup  3/4 cup  1/2 cup  1/4 cup

Inches
Use the four figures below to answer question R5.

R5  Which figure is next to the square?

A  

B  

C
Use the three coins below to answer question **R6**.

![Coins](image)

**R6** How much money is shown?

- **A** 30¢
- **B** 75¢
- **C** 85¢
Use the chart below to answer question **R7**.

**Student Runners**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday</strong></td>
<td>![Images of students]</td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td>![Images of students]</td>
</tr>
<tr>
<td><strong>Wednesday</strong></td>
<td>![Images of students]</td>
</tr>
</tbody>
</table>

**R7** The chart shows how many students ran around the gym.

On which day did the **most** students run around the gym?

- **A** Monday
- **B** Tuesday
- **C** Wednesday
Use the figure below to answer question R8.

R8  How many flowers are shown?

A  2
B  5
C  10
R9  Jan has 2 cats.

Bob has 3 cats.

Terry has 3 cats.

How many cats do they have altogether?

A  5
B  6
C  8

R10  There are 5 chairs at a table.

There are 12 students.

How many students must stand?

A  12 – 5
B  12 + 5
C  5 – 1
STOP

Do not continue until instructed to do so.
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 5 assessment will measure Grade 4 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>R7</td>
<td>D.RE.04.EG02</td>
<td>Read tables, graphs, tallies and pictographs</td>
<td>C</td>
</tr>
<tr>
<td>R5</td>
<td>G.IO.04.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.04.EG09</td>
<td>Tell the amount of money</td>
<td>B</td>
</tr>
<tr>
<td>R4</td>
<td>M.UN.04.EG01</td>
<td>Use standard tools for measurement</td>
<td>C</td>
</tr>
<tr>
<td>R3</td>
<td>M.UN.04.EG02</td>
<td>Select units of measure</td>
<td>C</td>
</tr>
<tr>
<td>R9</td>
<td>N.FL.04.EG12</td>
<td>Add two or three one-digit numbers</td>
<td>C</td>
</tr>
<tr>
<td>R8</td>
<td>N.ME.04.EG01</td>
<td>Read, write and count using whole numbers to 1000 in numerals and words, and relate</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>them to the quantities they represent</td>
<td></td>
</tr>
<tr>
<td>R2</td>
<td>N.ME.04.EG03</td>
<td>Represent whole numbers to 1000 using concrete representations.</td>
<td>B</td>
</tr>
<tr>
<td>R1</td>
<td>N.MR.04.EG09</td>
<td>Create, describe, and extend simple number patterns</td>
<td>A</td>
</tr>
<tr>
<td>R10</td>
<td>N.MR.04.EG16</td>
<td>Select numbers to solve problems</td>
<td>A</td>
</tr>
</tbody>
</table>