Functional Independence

Mathematics

Official Released Items

Grade 7

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>17</td>
</tr>
<tr>
<td>Measurement</td>
<td>12</td>
</tr>
<tr>
<td>Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Data and Probability</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Core Items/Points</strong></td>
<td><strong>35</strong></td>
</tr>
<tr>
<td>Released Items</td>
<td>10</td>
</tr>
</tbody>
</table>

(Numbers vary by strand and topic.)
DIRECTIONS: Read each question. Choose the BEST answer for each question.

Use the figure below to answer question R1.

R1   How many cans belong on the top to complete this pattern?

A   1
B   2
C   3
R2  Which unit can be used to measure the width of a window?

A  inches

B  pounds

C  quarts

R3  What time is shown on the clock?

A  12:00

B  2:00

C  4:00
Use the seating chart below to answer question **R4**.

![Seating Chart](image)

**R4** Who sits directly behind Jessica?

- **A** Carmen
- **B** Victor
- **C** Sara
Use the map and compass below to answer question R5.

R5 Judy left her house and turned right onto Elm Road and then right onto Main Street to get to school.

What direction did Judy travel on Elm Road?

A  north
B  south
C  west
Use the thermometer below to answer question R6.

R6 Water freezes at 32 degrees Fahrenheit.

It is 48 degrees Fahrenheit now.

How many degrees lower does the temperature need to be for water to freeze?

A 16 degrees Fahrenheit
B 22 degrees Fahrenheit
C 27 degrees Fahrenheit
Use the bar graph below to answer question **R7**.

![Bar Graph](image)

**R7** Which of the circle graphs on the next page shows the same data as the graph above?
R8  Mark needs 20 feet of string to fly his kite.

He has 50 feet of string he can use.

How much string will be left over?

A  20 feet
B  30 feet
C  40 feet

R9  Jake had 12 markers.

He lost 3 of the markers.

Which expression shows how many markers Jake has now?

A  $12 \times 3$
B  $12 - 3$
C  $12 + 3$
**R10** Bobby gets paid $1 for every pound of cans he recycles.

If he recycles 5 pounds of cans, how much money will he make?

- A $6
- B $5
- C $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 7 assessment will measure Grade 6 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at [www.mi.gov/mi-access](http://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.06.EG01</td>
<td>Read data</td>
<td>C</td>
</tr>
<tr>
<td>R4</td>
<td>G.LO.06.EG01</td>
<td>Use relative position of objects on a plane and in space</td>
<td>C</td>
</tr>
<tr>
<td>R5</td>
<td>G.LO.06.EG03</td>
<td>Read, interpret and use maps and grids</td>
<td>A</td>
</tr>
<tr>
<td>R10</td>
<td>M.PS.06.EG12</td>
<td>Add and subtract money in dollars and cents</td>
<td>B</td>
</tr>
<tr>
<td>R2</td>
<td>M.UN.06.EG02</td>
<td>Select units of measure</td>
<td>A</td>
</tr>
<tr>
<td>R3</td>
<td>M.UN.06.EG07</td>
<td>Tell time on a clock to the nearest hour</td>
<td>C</td>
</tr>
<tr>
<td>R6</td>
<td>M.PS.06.EG09</td>
<td>Solve one-step word problems</td>
<td>A</td>
</tr>
<tr>
<td>R8</td>
<td>N.FL.06.EG07</td>
<td>Add and subtract one- and two-digit numbers</td>
<td>B</td>
</tr>
<tr>
<td>R1</td>
<td>N.MR.06.EG05</td>
<td>Create, describe, and extend simple number patterns</td>
<td>A</td>
</tr>
<tr>
<td>R9</td>
<td>N.MR.06.EG15</td>
<td>Select numbers to solve problems</td>
<td>B</td>
</tr>
</tbody>
</table>