Functional Independence
Mathematics

Official Released Items

Grade 8

Fall 2007
Official Released Items
The Grade 8 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 2007 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 2007 Grade 8 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.

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<th>Functional Independence Mathematics Grade 8</th>
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<td>Mathematics Strand</td>
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<td>Numbers and Operations</td>
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<td>Algebra</td>
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<td>Measurement</td>
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<td>Geometry</td>
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<td>Data and Probability</td>
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<tr>
<td><strong>Total Core Items/Points</strong></td>
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<tr>
<td><strong>Released Items</strong></td>
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(Numbers vary by strand and topic.)

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R1 Which number comes next in the pattern?

1, 5, 9, 13, ____

A 15
B 17
C 21
R2 Which could be the price of a book?

A 15 gallons

B 15 inches

C 15 dollars
R3  Which unit can be used to measure the volume of juice in a glass?

A  inches

B  pounds

C  cups
R4  12 inches = 1 foot

3 feet = 1 yard

How many inches are in 1 yard?

A  9
B  24
C  36
R5  Joe collects stamps.

His goal is to collect 250 stamps.

The graph below shows how many stamps Joe had over the last 4 months.

In what month did Joe meet his goal of 250 stamps?

A  February

B  March

C  April
R6  Tracy buys 2 gallons of milk each week.

How many gallons does she buy in 7 weeks?

A   7

B   9

C   14
R7  Vic had $55.00.

He bought a book for $15.00.

How much money did he have after he bought the book?

A  $40.00

B  $45.00

C  $60.00
Use the figure below to answer question **R8**.

![Figure](image)

**R8** How much of the figure above is shaded?

- **A** \( \frac{1}{10} \)
- **B** \( \frac{2}{10} \)
- **C** \( \frac{4}{10} \)
R9  Charlie had 10 oranges.

He ate half of them.

How many oranges are left?

A  1

B  5

C  $9 \frac{1}{2}$
**R10** Fred has $90.00.

He spends about one-half of the $90.00.

Which number is **about** one-half of the $90.00?

A $41.00

B $46.00

C $49.00
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 8 assessment will measure the Grade 7 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</th>
<th>EGLCE Code</th>
<th>STRAND or Abbreviated Extended GLCE Descriptor</th>
<th>Answer Key</th>
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<tbody>
<tr>
<td>R5</td>
<td>D.RE.07.EG01</td>
<td>Read data</td>
<td>C</td>
</tr>
<tr>
<td>R2</td>
<td>M.UN.07.EG02</td>
<td>Select units of measure</td>
<td>C</td>
</tr>
<tr>
<td>R3</td>
<td>M.UN.07.EG02</td>
<td>Select units of measure</td>
<td>C</td>
</tr>
<tr>
<td>R4</td>
<td>M.UN.07.EG09</td>
<td>Convert units</td>
<td>C</td>
</tr>
<tr>
<td>R7</td>
<td>M.PS.07.EG15</td>
<td>Add and subtract money in dollars and cents</td>
<td>A</td>
</tr>
<tr>
<td>R1</td>
<td>N.MR.07.EG06</td>
<td>Create, describe, and extend simple number patterns</td>
<td>B</td>
</tr>
<tr>
<td>R6</td>
<td>N.FL.07.EG13</td>
<td>Calculate simple products</td>
<td>C</td>
</tr>
<tr>
<td>R8</td>
<td>N.ME.07.EG15</td>
<td>Recognize, name, represent, and write unit fractions</td>
<td>B</td>
</tr>
<tr>
<td>R9</td>
<td>N.MR.07.EG21</td>
<td>Multiply fractions by whole numbers</td>
<td>B</td>
</tr>
<tr>
<td>R10</td>
<td>N.FL.07.EG23</td>
<td>Apply estimation in solving problems</td>
<td>B</td>
</tr>
</tbody>
</table>