Functional Independence
Mathematics

Official Released Items

Grade 7

Fall 2009
Official Released Items
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The Grade 7 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 7 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>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><strong>Released Items</strong></td>
<td><strong>10</strong></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.
R1  Look at the pattern.

50, 48, 46, 44, ____

How is the next number in the pattern found?

A  add 2

B  subtract 2

C  subtract 4
R2  Vic is measuring the temperature outside.

Which tool is he using?

A  ruler
B  thermometer
C  measuring cup
Use the picture below and the ruler to answer question R3.

![Image of a pencil](image)

**R3** What is the length of this pencil, to the nearest half-inch?

- **A** 4 inches
- **B** $4\frac{1}{2}$ inches
- **C** 5 inches
Use the map below to answer question **R4**.

![Map with characters: Paul, Dave, Jen, Lynn]

**Key**

Each side of the square is one block.

**R4** How many blocks is Dave from Jen?

- **A** 1
- **B** 3
- **C** 5
Use the key below to answer question **R5**.

<table>
<thead>
<tr>
<th>Key</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] [ ] [ ] [ ] [ ] [ ]</td>
<td>shows 10</td>
</tr>
<tr>
<td>[ ]</td>
<td>shows 1</td>
</tr>
</tbody>
</table>

**R5** Which set of blocks on the following page shows 23?
R6 The manager of the school store kept track of sales each month in the table below.

Sales in the School Store

<table>
<thead>
<tr>
<th>Month</th>
<th>Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>$150.00</td>
</tr>
<tr>
<td>February</td>
<td>$200.00</td>
</tr>
<tr>
<td>March</td>
<td>$250.00</td>
</tr>
<tr>
<td>April</td>
<td>?</td>
</tr>
</tbody>
</table>

If the pattern continues, what will be the sales in April?

A $200.00

B $300.00

C $400.00
R7  Which number belongs in the blank?

\[ 147 + 34 = \text{_____} \]

A  113

B  171

C  181
R8  Mary is making cookies.

She can fit 12 cookies on 1 baking pan.

How many cookies can she fit on 2 baking pans?

A  12

B  14

C  24
R9 Ross has 32 pencils.

Greg has 19 pencils.

About how many pencils do they have altogether?

A 35

B 50

C 60
Use the coins below to answer question **R10**.

![Image of coins]

**R10** Which set of coins has the **same** value as the coins shown above?

A

B

C
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 the 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.

<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>R6</td>
<td>D.RE.06.FI.EG02</td>
<td>DATA AND PROBABILITY: Draw predictions and conclusions from data</td>
<td>B</td>
</tr>
<tr>
<td>R2</td>
<td>M.UN.06.FI.EG01</td>
<td>MEASUREMENT: Use standard tools for measurement</td>
<td>B</td>
</tr>
<tr>
<td>R3</td>
<td>M.UN.06.FI.EG04</td>
<td>MEASUREMENT: Measure lengths to the nearest half-inch</td>
<td>B</td>
</tr>
<tr>
<td>R10</td>
<td>M.UN.06.FI.EG10</td>
<td>MEASUREMENT: Recognize equivalent sets of coins and bills</td>
<td>C</td>
</tr>
<tr>
<td>R4</td>
<td>G.LO.06.FI.EG02</td>
<td>GEOMETRY: Find and name locations in coordinate systems</td>
<td>B</td>
</tr>
<tr>
<td>R1</td>
<td>N.MR.06.FI.EG06</td>
<td>NUMBERS AND OPERATIONS: Find the next number in a simple repeating pattern</td>
<td>B</td>
</tr>
<tr>
<td>R5</td>
<td>N.ME.06.FI.EG02</td>
<td>NUMBERS AND OPERATIONS: Represent numbers for whole numbers to 10,000</td>
<td>A</td>
</tr>
<tr>
<td>R7</td>
<td>N.MR.06.FI.EG08</td>
<td>NUMBERS AND OPERATIONS: Solve simple number sentences for +/-</td>
<td>C</td>
</tr>
<tr>
<td>R8</td>
<td>N.MR.06.FI.EG13</td>
<td>NUMBERS AND OPERATIONS: Represent x/÷</td>
<td>C</td>
</tr>
<tr>
<td>R9</td>
<td>N.FL.06.FI.EG14</td>
<td>NUMBERS AND OPERATIONS: Apply estimation</td>
<td>B</td>
</tr>
</tbody>
</table>