Item 1

Manipulatives: Provided by NCDPI

- Stimulus: picture of 1 table and 4 chairs
- Card A: 1 : 4
- Card B: 1 : 5
- Card C: 4 : 1

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- Present the stimulus card using the following script.
- SAY: “This card shows 1 table and 4 chairs. What is the table-to-chair ratio?”
- Present the response cards in the following order using the script below (Card A, Card B, Card C).
- SAY: (Card A) “1 to 4” (Card B) “1 to 5” (Card C) “4 to 1”
- SAY: “What is the table-to-chair ratio? Choose a card.”
- Record the student response below and follow the directions to continue with Trial 2 or the next item.

Fill in Trial 1 Student Response Here:

<table>
<thead>
<tr>
<th>Card A</th>
<th>Card B</th>
<th>Card C</th>
<th>No Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go to the next item.</td>
<td>Remove Card B, Trial 2</td>
<td>Remove Card C, Trial 2</td>
<td>Remove Card B, Trial 2</td>
</tr>
</tbody>
</table>
Trial 2

- Present the stimulus card using the following script.
- Say: “This card shows 1 table and 4 chairs. What is the table-to-chair ratio?”
- Present the response cards using the following script.
  - If Card B was removed
    - Say: (Card A) “1 to 4” (Card C) “4 to 1”
  - If Card C was removed
    - Say: (Card A) “1 to 4” (Card B) “1 to 5”
- Say: “What is the table-to-chair ratio? Choose a card.”
- Record the student response below and continue to the next item.

<table>
<thead>
<tr>
<th>Fill in Trial 2 Student Response Here:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card A ➔ Go to the next item.</td>
</tr>
<tr>
<td>Card B ➔ Go to the next item.</td>
</tr>
<tr>
<td>Card C ➔ Go to the next item.</td>
</tr>
<tr>
<td>No Response ➔ Go to the next item.</td>
</tr>
</tbody>
</table>
Item 2

Manipulatives: Provided by NCDPI

- Stimulus: 2 circles + ____ = 4 circles
- Card A: 1 circle
- Card B: 2 circles
- Card C: 3 circles

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- Present the stimulus card using the following script.
  - SAY: “This card says 2 circles plus blank equals 4 circles. How many more circles do you need to have 4 circles?”
- Present the response cards in the following order using the script below (Card A, Card B, Card C).
  - SAY: (Card A) “1 circle” (Card B) “2 circles” (Card C) “3 circles”
  - SAY: “How many more circles do you need to have 4 circles? Choose a card.”
- Record the student response below and follow the directions to continue with Trial 2 or the next item.

<table>
<thead>
<tr>
<th>Fill in Trial 1 Student Response Here:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card A</td>
</tr>
<tr>
<td>Card B</td>
</tr>
<tr>
<td>Card C</td>
</tr>
<tr>
<td>No Response</td>
</tr>
</tbody>
</table>
Trial 2

- Present the stimulus card using the following script.
  - SAY: “This card says 2 circles plus blank equals 4 circles. How many more circles do you need to have 4 circles?”
- Present the response cards using the following script.
  - **If Card A was removed**
    - SAY: (Card B) “2 circles” (Card C) “3 circles”
  - **If Card C was removed**
    - SAY: (Card A) “1 circle” (Card B) “2 circles”
  - SAY: “How many more circles do you need to have 4 circles? Choose a card.”
- Record the student response below and continue to the next item.

<table>
<thead>
<tr>
<th>Fill in Trial 2 Student Response Here:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card A</td>
</tr>
<tr>
<td>Card B</td>
</tr>
<tr>
<td>Card C</td>
</tr>
<tr>
<td>No Response</td>
</tr>
</tbody>
</table>
Item 3

Manipulatives: Provided by NCDPI

- Stimulus 1: bar graph titled “Class A’s School Arrival”
- Stimulus 2: bar graph titled “Class B’s School Arrival”
- Card A: bus
- Card B: car
- Card C: walking

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

**Trial 1**

- Present the stimulus cards using the following script.
- SAY: (Stimulus 1) “This graph shows the number of students in Class A that arrive to school in a bus, car, or by walking.” (Stimulus 2) “This graph shows the number of students in Class B that arrive to school in a bus, car, or by walking. Looking at both graphs, how do most students arrive to school?”
- Present the response cards in the following order using the script below (Card A, Card B, Card C).
- SAY: (Card A) “in a bus” (Card B) “in a car” (Card C) “by walking”
- SAY: “Looking at both graphs, how do most students arrive to school? Choose a card.”
- Record the student response below and follow the directions to continue with Trial 2 or the next item.

Fill in Trial 1 Student Response Here:

<table>
<thead>
<tr>
<th>Card A</th>
<th>Go to the next item.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card B</td>
<td>Remove Card B, Trial 2</td>
</tr>
<tr>
<td>Card C</td>
<td>Remove Card C, Trial 2</td>
</tr>
<tr>
<td>No Response</td>
<td>Remove Card B, Trial 2</td>
</tr>
</tbody>
</table>

Go to the next page.
Trial 2

- Present the stimulus cards using the following script.
  - SAY: (Stimulus 1) “This graph shows the number of students in Class A that arrive to school in a bus, car, or by walking.” (Stimulus 2) “This graph shows the number of students in Class B that arrive to school in a bus, car, or by walking. Looking at both graphs, how do most students arrive to school?”
  - Present the response cards using the following script.
    - If Card B was removed
      - SAY: (Card A) “in a bus” (Card C) “by walking”
    - If Card C was removed
      - SAY: (Card A) “in a bus” (Card B) “in a car”
    - SAY: “Looking at both graphs, how do most students arrive to school? Choose a card.”
  - Record the student response below and continue to the next item.

<table>
<thead>
<tr>
<th>Fill in Trial 2 Student Response Here:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card A  ➔  Go to the next item.</td>
</tr>
<tr>
<td>Card B  ➔  Go to the next item.</td>
</tr>
<tr>
<td>Card C  ➔  Go to the next item.</td>
</tr>
<tr>
<td>No Response ➔  Go to the next item.</td>
</tr>
</tbody>
</table>
Item 4

Manipulatives: Provided by NCDPI

- Card A: picture of a triangle and a pentagon
- Card B: picture of a square and a triangle
- Card C: picture of a square and a rectangle

*Objects/symbols may be substituted for the pictures if used routinely in the classroom. (Provided by the assessor)

Trial 1

- SAY: “Which two shapes have the same number of sides?”
- Present the response cards in the following order (Card A, Card B, Card C).
- SAY: “Which two shapes have the same number of sides? Choose a card.”
- Record the student response below and follow the directions to continue with Trial 2 or end the sample items.

Fill in Trial 1 Student Response Here:

<table>
<thead>
<tr>
<th>Card A</th>
<th>Card B</th>
<th>Card C</th>
<th>No Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove Card A, Trial 2</td>
<td>Remove Card B, Trial 2</td>
<td>Turn the page to end the sample items.</td>
<td>Remove Card B, Trial 2</td>
</tr>
</tbody>
</table>
Trial 2

- SAY: “Which two shapes have the same number of sides?”
- Present the response cards in the following order.
  * If Card A was removed, present Card B, then Card C
  * If Card B was removed, present Card A, then Card C
- SAY: “Which two shapes have the same number of sides? Choose a card.”
- Record the student response below and continue to the next item.

<table>
<thead>
<tr>
<th>Fill in Trial 2 Student Response Here:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card A ➕ End the sample items.</td>
</tr>
<tr>
<td>Card B ➕ End the sample items.</td>
</tr>
<tr>
<td>Card C ➕ End the sample items.</td>
</tr>
<tr>
<td>No Response ➕ End the sample items.</td>
</tr>
</tbody>
</table>

End of the Sample Items

Read the following to announce the end of the testing session.

SAY: “You have just finished sample items for the North Carolina Mathematics assessment for Grades 6–8. Thank you for your hard work.”
1 : 4
4 : 1
$2 + \_\_\_ = 4$
bus
car
walking