Domain III: Closing Performance Gaps

Construction
- All Tests
- All Subjects
- All Grades
- Economically Disadvantaged Students Only
- Minimum Size: 40 Tests
- No Small-Numbers Analysis

Indicators*
- STAAR Satisfactory Standard
- STAAR Postsecondary Readiness Standard
- STAAR Advanced Standard

Calculation
- Calculate the Domain I score using assessment results from only the economically disadvantaged student group.
  - One Point for Each Percentage of Test Results at the Satisfactory Standard or Above
  - One Point for Each Percentage of Test Results at the Postsecondary Readiness Standard or Above
  - One Point for Each Percentage of Test Results at the Advanced Standard
  - Total Points Earned Divided by Total Possible Points (300)
- Calculate the predicted Domain I score (based on district or campus type and the percentage of economically disadvantaged) using the provided formulas for the appropriate district or campus type.
- The difference between the actual Domain I score and the predicted Domain I score is the Domain III score.

*Please see page 2 of Domain I methodology for additional information on inclusion of assessment results.

Formulas
- Based on slope-intercept form: \( y = mx + b \)
- Set using statewide data from the 2015–16 school year
- Targets for 2017–18 will be held constant based on the formulas derived from the 2016–17 assessment data
- Two Variables
  - \( y \) is the predicted Domain I score.
  - \( x \) is the percentage of students who are economically disadvantaged.

Formulas by District and Campus Type

<table>
<thead>
<tr>
<th>District Type</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Campus</td>
<td>( y = -0.10992x + 47.31887 )</td>
</tr>
<tr>
<td>Middle School Campus</td>
<td>( y = -0.18288x + 47.49244 )</td>
</tr>
<tr>
<td>High School/K–12 Campus</td>
<td>( y = -0.1281x + 46.78849 )</td>
</tr>
<tr>
<td>AEA Campus</td>
<td>( y = -0.09541x + 29.52348 )</td>
</tr>
<tr>
<td>Non-AEA District</td>
<td>( y = -0.15666x + 45.89303 )</td>
</tr>
<tr>
<td>AEA District</td>
<td>( y = -0.14709x + 34.41915 )</td>
</tr>
</tbody>
</table>

Grade
- Calculating the Domain III score requires two data points:
  - The percentage of students who are economically disadvantaged in a campus or district
  - The specific type of campus or district
- Calculate the predicted Domain I score using percentage of economically disadvantaged and the appropriate formula.
- Calculate the actual Domain I score based on the results of students in the economically disadvantaged subgroup.
- Subtract the predicted Domain I score from the actual Domain I score to get the Domain III score.
### Three Sample Calculations

1) **Sample Elementary Campus**
   - Formula for an elementary school is \( y = -0.10992x + 47.31887 \).
   - Its percentage of economically disadvantaged students is 4.8.
   - Plugging this number into the formula and rounding to the first decimal point gives \( y = -0.10992(4.8) + 47.31887 \rightarrow y = 46.8 \).
   - This campus’s actual Domain I score for economically disadvantaged students is 39; subtracting the predicted from actual \( 39 - 46.8 = -7.8 \).
   - Using the chart of domain targets, we see that this campus has earned a Domain III letter grade of \( D \).

2) **Sample AEA Campus**

- **Campus Type**
  - AEA

- **Formula**
  - \( y = -0.09541(x) + 29.52348 \)

- **Economically Disadvantaged Percentage**
  - 96.6%

- **Predicted Domain I Score**
  - \(-0.09541(96.6) + 29.52348 = 20.3\)

- **Actual Domain I Score (economically disadvantaged)**
  - 40

- **Domain III Score**
  - \( 40 - 20.3 = 19.7 \)

- **Domain III Letter Grade**
  - A

3) **Sample Non-AEA District**

- **District Type**
  - Non-AEA

- **Formula**
  - \( y = -0.15666(x) + 45.89303 \)

- **Economically Disadvantaged Percentage**
  - 11.9%

- **Predicted Domain I Score**
  - \(-0.15666(11.9) + 45.89303 = 44.0\)

- **Actual Domain I Score (economically disadvantaged)**
  - 34

- **Domain III Score**
  - \( 34 - 44.0 = -10.0 \)

- **Domain III Letter Grade**
  - F