

# NAEP's Transition to Technology

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What is NAEP?



# What is NAEP?



- National Assessment of Educational Progress
- Common yardstick of student performance across states and select large urban districts
- Congressionally mandated

# What is NAEP?



- Demonstrates what students know and can do in a variety of subject areas
- Designed to assess challenging content
- Newest assessment: Technology and Engineering Literacy (TEL)

# What is NAEP?



- Reports scale scores and achievement levels for student performance
- National, state, and urban district reporting



# Transition to Digitally Based Assessments

- Grades 4, 8, and 12
- Mathematics, reading, and science
- 166,000 students
- 3,600 schools



# The Student Experience: New Tools

## HOW BUTTONS ARE SOLD

| Type               | Number of Buttons      |
|--------------------|------------------------|
| Box of buttons     | 1,000 buttons          |
| Package of buttons | 100 buttons $\times 9$ |
| Card of buttons    | 10 buttons $\times 12$ |
| Single button      | 1 button $\times 5$    |

$$1000 + 900 + 120 + 5 = 2025$$

The art teacher bought buttons for a project.

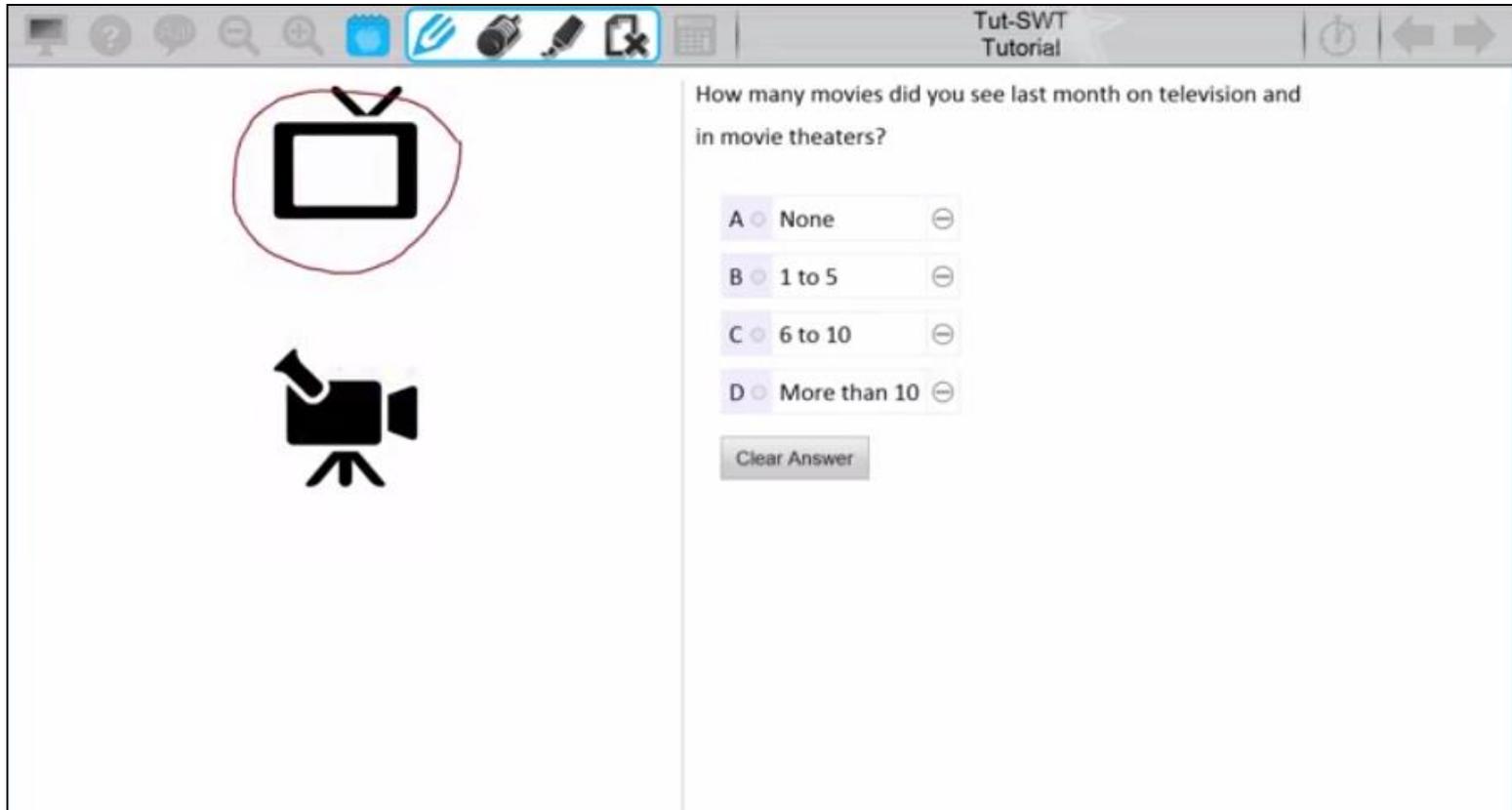
The teacher bought 1 box, 9 packages, 12 cards, and 5 single buttons.

How many buttons did the teacher buy altogether?

Answer:

buttons.

# New for 2015: Scratchwork

A screenshot of a Scratchwork interface. The top toolbar contains various icons for navigation and editing. The main workspace is split into two panels. The left panel shows two icons: a television set and a movie camera. The television icon is circled in red. The right panel contains a question and four multiple-choice options.

Tut-SWT  
Tutorial

How many movies did you see last month on television and in movie theaters?

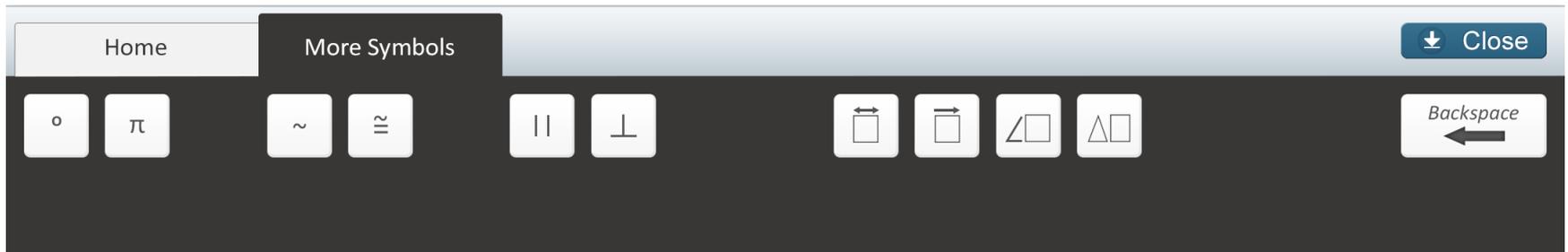
A  None

B  1 to 5

C  6 to 10

D  More than 10

# New for 2015: Equation Editor



Grade 8 Equation Editor

# New for 2015: Calculator



Grade 8 Calculator

# New for 2015: Look-back Buttons



Paper-and-pencil example: Why does the author include the map on page 3?

TBA revision: Why does the author include the **map** on page 3?

# New for 2015: Look-back Buttons



The screenshot displays a digital reading tutorial interface. On the left, a story titled "from **Because of Winn-Dixie**" by Kate DiCamillo, Chapter One, is shown. The text reads: "My name is India Opal Buloni, and last summer my daddy, the preacher, sent me to the store for a box of macaroni-and-cheese, some white rice, and two tomatoes and I came back with a dog. This is what happened: I walked into the produce section of the Winn-Dixie grocery store to pick out my two tomatoes and I almost bumped right into the store manager. He was standing there all red-faced, screaming and waving his arms around." Below this, a quote from the manager is visible: "Who let a dog in here?" he kept shouting. "Who let a dirty dog in here?"

On the right, a comprehension question is presented: "Do you think the **first sentence** is a good way to begin the story? Support your opinion with information from the story." The words "first sentence" are highlighted with an orange box. Above the question is a navigation bar with buttons numbered 1 through 9, and a "Review" button. The "1" button is currently selected. The interface also includes a "Tut-Reading Tutorial" header, a "Show Questions" button, and various navigation icons at the top.



# The School Experience: New Tools

- Preassessment activities:
  - Gather current student roster (needed to sample newly enrolled students)
  - Review and update student demographics (needed for reporting)
  - Provide inclusion and accommodation information for all SD and ELL students

# ePAV: Web Application



- In 2015, 22,000 School Coordinators used the web application

The screenshot displays the MyNAEP For Schools web application interface. The header includes the NAEP logo, the title 'MyNAEP For Schools', and the district name 'District: Providence Creek Schools (47)'. A navigation bar contains links for 'Help', 'Contact Us', 'My Account', 'Logout', and 'Return to rob'. The user is identified as 'School Coordinator Warren T. Eich Intermediate' with a 'Grade 8 Assessment' indicator.

The main content area is titled 'Update Student Information' and includes a 'Full Screen Mode' toggle and a 'UP-DEM 1-6' identifier. A message instructs the user to review demographic data and make updates using pencil icons in the table.

| Edit                     | Student ID | Last Name     | First Name | Middle Name | Month of Birth | Year of Birth | Gender | Race/Ethnicity            | School Lunch Status  |
|--------------------------|------------|---------------|------------|-------------|----------------|---------------|--------|---------------------------|----------------------|
| <input type="checkbox"/> |            | BAXTER        | JAMES      |             | 11             | 2000          | Male   | White                     | Student not eligible |
| <input type="checkbox"/> |            | BOATENG       | GARY       | LEE         | 01             | 2001          | Male   | Black or African American | Student not eligible |
| <input type="checkbox"/> |            | BOEHRER       | PATISHA    |             | 04             | 2001          | Female | White                     | Student not eligible |
| <input type="checkbox"/> |            | BOUTTAVONG    | VICTORIA   | AMBER       | 10             | 2001          | Female | Hispanic                  | Free lunch           |
| <input type="checkbox"/> |            | BRYANT        | ALLISON    | K           | 12             | 2000          | Female | Black or African American | Student not eligible |
| <input type="checkbox"/> |            | BUI           | ACE        | RUIZ        | 10             | 2000          | Male   | Asian                     | Student not eligible |
| <input type="checkbox"/> |            | CALL          | ALEXA      | MAY         | 04             | 2001          | Female | White                     | Free lunch           |
| <input type="checkbox"/> |            | CAMPBELL-BOYD | WILTON     | ALLEN       | 02             | 2001          | Male   | Black or African American | Student not eligible |
| <input type="checkbox"/> |            | DEPUTY        | MADISON    |             | 02             | 2001          | Female | White                     | Student not eligible |
| <input type="checkbox"/> |            | DIAZ          | JUAN       | MANUEL      | 12             | 2001          | Male   | Hispanic                  | Free lunch           |
| <input type="checkbox"/> |            | EASTERLING    | CRISTINA   | C           | 12             | 2001          | Female | Black or African American | Student not eligible |
| <input type="checkbox"/> |            | ERVIN         | JACK       | R           | 12             | 2001          | Male   | White                     | Free lunch           |

Navigation buttons at the bottom include 'Back to Beginning', 'Back', 'Continue', and 'Exit'.

- Increase data transmission capacity
- Expect issues due to student and interface interactions
- Changes to DBA products have consequences

- Innovative item types
- Interactive tutorials
- Outreach materials