



# PARCC Mathematics Assessments 6-A2 Evidence Statements, Item Types, Form Blueprints, Scoring

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# Agenda

- ▶ Introduction
- ▶ Observations/Facts about PARCC Mathematics Assessments
- ▶ Standards
- ▶ PARCC Assessment Items
  - ▶ Item Alignment
- ▶ PARCC Assessment Forms
- ▶ PARCC Score Reports
  - ▶ Subclaim Scores
  - ▶ Released Items

# Introduction

- ▶ Michael Luke
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- ▶ NJDOE, 11 year civil servant
- ▶ PARCC Mathematics Operational Working Group (MOWG) 6-A2
- ▶ 23.5 years secondary education
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- ▶ Questions, comments, opinions, etc.
- ▶ Be careful with opinions and “facts”.
- ▶ Goal for the day.

# Observations/Facts About PARCC Mathematics Assessments

- ▶ Radian measure- virtual calculator, each unit
- ▶ Multiple Select Items
- ▶ Multiple Choice Items
- ▶ Sets of Standards- CCSSM, PARCC Evidence Statements, Domain 6, NJ Student Learning Standards
- ▶ TestNav Functionality- Hot Spot, Graphing a Quadratic
- ▶ All PARCC Items only report back to one standard
- ▶ Be Careful with Test Preparation- there are more PARCC Evidence Statements than test items in any grade/course in any year
- ▶ “Teaching to the Test”

# Sets of Standards

CCSSM and PARCC Evidence Statements- Ground Rules

# Common Core State Standards for Mathematics (CCSSM)

- ▶ <http://www.corestandards.org/Math/>
- ▶ Every piece of content in the Common Core (standard) has a grade, domain, and cluster assignment.
- ▶ 7.G.A.3 (was 7.G.3)
- ▶ Every grade/course has 5 domains (but not necessarily the same in any two grades/courses)
- ▶ A standard can be split further into parts
- ▶ HSF.TF.B.5 (course?) (was F.TF.5)
- ▶ Appendix A- The Pathways
- ▶ Mathematical Practices

# PARCC Evidence Statements

- ▶ <http://www.state.nj.us/education/assessment/district/> (see PARCC Test Design and Content Information)
- ▶ Based on CCSSM
- ▶ Three types of Evidence Statements (each type exists in each grade/course)
  - ▶ Type I- Content
  - ▶ Type II- Reasoning
  - ▶ Type III- Modeling
- ▶ Rationale
  - ▶ Better define where content is placed in HS courses
  - ▶ Better define what content is taught
  - ▶ Better define how the Mathematical Practices are assessed

# Type I Evidence Statements (Content)

- ▶ A-APR.3-1 (focus on -1, could also be a -2)
  - ▶ No HS, No Cluster
  - ▶ Algebra I
  - ▶ Limiting, compare to HSA.APR.B.3 (“quadratic and cubic polynomials”)
- ▶ F-IF.1 (AI)(exact match to CCSSM)



# Type II Evidence Statements (Reasoning)

- ▶ Not derived for the CCSSM- Unique to PARCC (vs. SBAC)
- ▶ HS.C.18.1 (AI), securely held knowledge
- ▶ HS.C.8.1 (AI) vs. HS.C.8.2 (AII) A.APR.4
- ▶ The number of these is deceiving as the required type of reasoning is repetitive across grades/course but the content used changes.

# Type III Evidence Statements (Modeling)

▶ 8.D.4

# Types of Evidence Statements and How they are Assessed

## Evidence Statements

- ▶ Type I- content, code is similar to CCSSM codes
- ▶ Type II- reasoning, code includes "C"
- ▶ Type II- modeling, code includes "D"

## Item Types

- ▶ Type I- machine scored items, multiple choice, multiple select, in line drop down, drag and drop, hot spot, graphing, short answer (buttons below answer space, no expanding window) (1, 2, or 4 pts.)
- ▶ Type II- hand scored constructed response (window expands down, buttons on side) (3 or 6 pts.) (CA)
- ▶ Type III- hand scored constructed response (window expands down, buttons on side) (3 or 6 pts.) (CA)

# PARCC Item Types



# PARCC Released Items

- ▶ <http://parcc-assessment.org/released-items>
- ▶ Page 1- two documents
- ▶ Page 7- Grade 6, 2016, Alignment Document, Item Set #4, 21, 24, 28, Sample Student Responses; 2015 PBA #11 (A1, A3, A5)
- ▶ Practice Tests: <https://parcc.pearson.com/practice-tests/>
  - ▶ Allows practice on TestNav functionality

# Test Forms and Score Reporting

Evidence Statements to Sub-Claims to Reports

# PARCC Reports Reliably on Four Sub-Claims and a Master Claim

- ▶ Major Content (Type I Items) (see Pathways)
- ▶ Additional and Supporting Content (Type I Items) (see Pathways)(see Below)(Grade 6 Statistics)
- ▶ Reasoning (Type II Items)
- ▶ Modeling (Type II Items)
- ▶ Integrated Evidence Statements (AI, F-IF.a.int.1, HS-Int3-2, Uniquely PARCC)
- ▶ <http://www.state.nj.us/education/assessment/district/>

# Forms- Item Counts by Type

- ▶ Three units
- ▶ Calculator Active (Types I, II, and III) always follows Non-Calculator (only Type I)
- ▶ <http://www.state.nj.us/education/assessment/district/>
- ▶ See test blueprints and Information Guides



# Forms- Item Types by Percent

Type	% of Form by Type	% of Form by Points
I	80.5-81.6	60.1-60.5 (SCI vs. SC2)
II	9.3-11.1	17.3-21.2
III	7.9-9.8	18.2-22.2

# Score Reporting

- ▶ Raw Data vs. Scale Scores
- ▶ <http://understandthescore.org/score-report-guide/>
- ▶ <https://parccresults.pearsonaccessnext.com/>
- ▶ <http://pearsonaccessnext.com>

# Questions?

- ▶ Who takes what test? (No double testing)
- ▶ New Summer Administration
- ▶ Graduation Requirements
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