# Next Generation Mathematics MCAS for Grade 10

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# Agenda

- **★**2017 Grade 10 Math MCAS
- ★Plans for High School assessment
- **★**Goal for today's session
- **★**Group discussion
  - Assessable High School standards
  - Securely held knowledge
- **★**Questions



# 2017 Grade 10 Math MCAS

- ★ Nothing has changed
  - **★**Paper-based test
  - **★**Two sessions
  - **★**Calculator available for session 2
  - **★**Based on 2011 standards
    - **★**connections to Grade 10 2000 standards
    - **★**includes some pre-HS standards
  - **★**Graduation requirement



### Plans for High School Assessment

- ★ Next-Generation Grade 10 MCAS scheduled for 2019
- ★ Keep the high school competency determination for mathematics at grade 10 for the near future.
- ★ Convene a stakeholder workgroup to identify and recommend options for a grade 11/grade 12 assessment program to gauge students' readiness for success after high school

# Goal for Today's Session

- ★ Discuss assessable High School standards
  - 113 high school standards
- ★ Discuss importance of securely held knowledge
  - Should it be assessed on MCAS and to what extent?
- ★ Provide feedback to the Department

# High School Standards

Of the 113 high school standards that are common to both pathways, what percentage of these standards should be assessable for high school competency?

```
a. 100%
```

c. 
$$60 - 80\%$$



# Securely Held Knowledge

To what extent does high school competency depend upon pre-high school standards?

- a. not at all
- b. a small amount
- c. a moderate amount
- d. a great amount



## Groups

- ★ Group 1: Algebra
- ★ Group 2: Functions
- ★ Group 3: Geometry-CO, Geometry-SRT
- ★ Group 4: Number and Quantity & Geometry-C, Geometry-GPE, Geometry-GMD
- ★ Group 5: Statistics and Probability



# **Group Task**

- ★ Each group
  - Facilitator
  - Note-taker
  - Time-keeper
  - Reporter
- **★** Complete the Standards Checklist in response to the question: How important is this standard for the assessment of high school competency?
- ★ Report out
  - Use flip charts to record:
    - standards that are noted as not important
    - standards where there is no consensus on importance



### Discussion

★ Report out

# **High School Standards**

Of the 113 high school standards that are common to both pathways, what percentage of these standards should be assessable for high school competency?

```
a. 100%
```

c. 
$$60 - 80\%$$

# Securely Held Knowledge

What percentage of the test should assess securely held knowledge?

a. 
$$0 - 10\%$$

c. 
$$20 - 30\%$$

$$d. > 30\%$$

# Questions

### **More Information**

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**Visit** 

www.doe.mass.edu/mcas/nextgen/

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