

## Content Standards

- 6.G. 2 - Find the volume of a right rectangular prism with fractional edge lengths
- 7.G.6 - Solve real-world and mathematical problems involving area, volume and surface area



Content Standards

- 8.F. 4 - Construct a function to model a linear relationship between two quantities.


## Standards for Mathematical Practice


2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning


For each linear equation in the table, select whether the equation has no solution, one solution, or infinitely many solutions.

| $\|$Score Result <br> Your response earned 0 points of a possible 1 <br> All credit answer | Your <br> answer |
| :--- | :--- |
| The student correctly identified the number of solutions for <br> each equation. | W |
| ok |  |
| $-12(x+2)=-14 x+2$ |  |

$$
\begin{array}{lc}
\text { SMARTER } & \text { - Selected-response items } \\
\text { BALANCED } & \text { - Technology-enhanced items } \\
\text { PROBLEM } & \text { - Use technology to collect } \\
\text { TYPES } & \text { evidence through a non- } \\
& \text { traditional response type, } \\
& \text { such as editing text or } \\
& \text { drawing an object. }
\end{array}
$$



## The ny For full credit (2 points)

Me - Student reaches the correct conclusion.

## is $n$ AND

- Student provides sufficient reasoning to support this conclusion.


## For partial credit (1 point):

- Student reaches the correct conclusion but does not provide sufficient reasoning to support this conclusion.
OR
- Student does not reach the correct conclusion but provides reasoning to support this conclusion that contains a minor conceptual or computation error.


## For full credit (2 points):

- Student reaches the correct conclusion.

AND

- Student provides sufficient reasoning to support this conclusion.


## For partial credit (1 point):

- Student reaches the correct conclusion but does not provide sufficient reasoning to support this conclusion.
OR
- Student does not reach the correct conclusion but provides reasoning to support this conclusion that contains a minor conceptual or computation error.

SMARTER
BALANCED
PROBLIM
TYPES

- Selected-response items
- Technology-enhanced items
- Constructed-response items
- Performance tasks
- Measure a student's
ability to integrate
knowledge and skills across multiple standards.

Common Core vs. California Standards


Common Core vs. California Standards
Antonio and Juan are in a 4 -mile bike race. The graph below shows the distance of each racer (in miles) as a function of time (in minutes). distance (niles)


Who wins the race? How do you know?

- Imagine you were watching the race and had to announce it over the radio, write a little story describing the race.

Source: http://www.illustrativemathematics.org/standards/k8

Content Standards

- 6.RP. 2 - Understand the concept of a unit
6.RP. 3 - Use ratio and rate reasoning to solve real-world and mathematical problems.


## The Reality

- What does "best" mean?
- 120 tickets for $\$ 50$ is "best" because you get the most tickets - 1 ticket for $\$ 0.50$ is "best" because you spend the least amount of money
" "What do you need to know to solve the problem?"
- How many tickets will we use?
- How long will we be staying there?
- How many people are we going with?

How many tickets do the rides cost?

- Once they started working, they had no idea what to do. - They didn't realize that they could buy multiple sets of tickets.




## The Four C's

oCommunication
oCuriosity
oCritical Thinking
oContent Knowledge

## Questioning Scenarios

- The activity begins with teachers in groups of three taking the roles of teacher, student, or observer.
- The individuals playing the role of teacher and student each receive a slip of paper describing their scenario.
- The individual playing the role of observer waits to record all of the teacher's questions to the student.
- Once the activity begins, the teacher will talk to the student in the context of the scenario they read about on the slips of paper.



BREAKING
DOWN THE
CONTENT
STANDARDS

- Domain and Conceptual

Categories

- Reading the Content

Standards

- Fifteen percent
- Identifying CA
additions


BREAKING
DOWN THE
CONTENT STANDARDS

- Domain and Conceptual

Categories

- Reading the Content

Standards

- Fifteen percent
- Identifying CA
additions
- Understanding the
standards




## Content Standards Review

- Read your course standards
- Introduction
- Overview
- Course differences
- Reference standards on
illustrativemathematics.org
- Review standards for one or more grade levels above and below


NEXT
STEPS

- Standards for

Mathematical Practice

- Talking and writing about mathematics
- Rigor
- Application
- Conceptual
understanding
- Procedural skill and fluency


