Top Teacher Moves
Common Assessments
Day 9, Apr 22, 2024

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The Math Projects Journal
clotheslinemath.com
Murrieta Valley USD

Please sit in course teams and access:
bit.ly/WJUSDmath

1

Collective Teacher Efficacy

2

Elimination Method:
Start with Concrete Numbers

$3 + 6 = 9$
$1 + 4 = 5$
$4 + 10 = 14$

$3 + 6 = 9$
$1 + 4 = 5$
$2 + 2 = 4$

$2(3 + 6 = 9)$
$6 + 12 =$
18

$2(3 + 6 = 9)$
$3(1 + 4 = 5)$
$6 + 12 = 18$
$3 + 12 = 15$
$3 \quad = 3$

3

Elimination Method: Then ONE Variable

$x + 6 = 15$
$x + 4 = 13$
$\mathbf{2x + 10 = 28}$

$3 + 2x = 11$
$1 + x = 5$
$\mathbf{2 + x = 6}$

$2(x + 6 = 9)$
$\mathbf{2x + 12 = 18}$

4

Elimination Method: Then The Game

(6, 2)

$x + y = 8$
$x - y = 4$
$\mathbf{2x + 0 = 12}$
$\mathbf{x = 6}$

$\mathbf{6 + y = 8}$
$\mathbf{6 - 2 = 4}$

(__, __)

$x + y =$ ___
$x - y =$ ___

$x + 2y =$ ___
$x - y =$ ___

5

Super Size It

7.G.A.1
Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing…

7.RP.A.2.A
Decide whether two quantities are in a proportional relationship…

6

Super Size It

Required:
Dimensions, Volume & Price

Challenge:
Surface Area

Solution Tree

7

Super "Duper" Size It

Reason quantitatively by using actual lengths of two objects to determine whether they are in a proportional relationship…

9.58"H x 7.42"W x 3.92"D

$15.99

_____"H x _____ "W x _____"D

$_____

Solution Tree

8

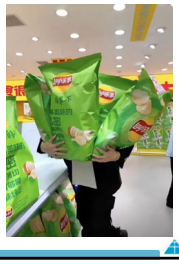
Super "Duper" Size It

Reason quantitatively by using actual lengths of two objects to determine whether they are in a proportional relationship…

9.21"H x 8.43"W x 4.96"D

$11.37

_____"H x _____ "W x _____"D



$_____

Solution Tree

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Top Teacher Moves
Elimination Game & Super Size

Top Teacher Moves

1. High Expectations for and Communicated to ALL Students
2. Dual Objectives for the Explicit Teaching of Thinking
3. Warm-Up on Prerequisite Skills & Numeracy
4. No-Options Engagement
5. Tasks! (60% of the time)
6. Group Work, Norms & Group Quizzes
7. Concepts-Procedures-Applications (C-P-A Progression)
8. Lapboards (Engagement, Feedback Techniques)
9. 3-Reads, Close Reading
10. Higher-Order Thinking Questions
11. Chunking
12. Gradual Reel-In
13. Manipulatives & Measurement
14. Structured Notes with Feedback
15. Cumulative Assignments & Assessments
16. Re-Engagement instead of Re-Teaching
17. Use Student Thinking in Formative Assessment
18. Differentiation by Extension
19. Instructional Technology
20. Process Reward System
21. Boot Camp (Unit 0)
22. Reflective Conclusion
23. Home Base: Teach Students How to Play School; More Textbooks for Students, Less for Teachers

Which of these did you see applied in our two sample lessons?

Solution Tree

10

Top Teacher Moves
Our 10 Days Together

May 25: Expectations & Tasks! Top Teacher Move #1

Aug 28: No-Options, Prerequisites & H.O.T.S.

Sept 25: SMPs & Dual Targets

Oct 16: Coaching Classroom Walk-Throughs

Nov 13: Debrief & C-P-A Progression

Jan 22: Group Work & Top Teacher Move #2

Feb 26: Re-Engagement, Data Analysis & Standards Docs

Mar 18: Grading & Essential Standards

Apr 22: Common Assessments

May 13: Next Year Prep & Meeting Protocols

Solution Tree

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Top Teacher Moves
Your Progress

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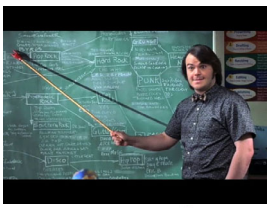

Solution Tree

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Top Teacher Moves
Our Objectives Today

- **Finish last session's Planning Documents:**
  - Scope & Sequence
  - Pacing Guide
  - UPO w/ Essential Standards (Boulders).
- **Create Common Assessments:**
  - Final Exam Semester 1
  - Common Unit Assessment (Unit 1)
- **Bonus Assessments & Documents:**
  - Performance Task Benchmark
  - Prerequisites Skills for each Unit Planning Organizer

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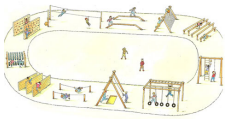
Guaranteed & Viable Curriculum

"The number one factor affecting student achievement is a guaranteed and viable curriculum."

–Robert Marzano, *What Works In Schools*

Guaranteed:
Essential Standards for all students from all teachers

Viable:
Within the time available



Curriculum:
Racecourse

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Guaranteed & Viable Curriculum
Planning Documents

Scope & Sequence

Pacing Guide

Unit Planning Organizers (UPOs)

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Essential Standards (Boulders)

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Guaranteed & Viable Curriculum
Admin Support

Admin Access

	Scope & Sequence	Pacing Guide	UPO Essential Boulders	Common Final	Common Unit Assessment	Common PT	UPO Prereq's
8th Grade							
Admin Access for Douglass:							
Admin Access for Lee:							
7th Grade							
Admin Access for Douglass:							
Admin Access for Lee:							

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Solution Tree

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Break

10 minutes until

Final Exams

Solution Tree

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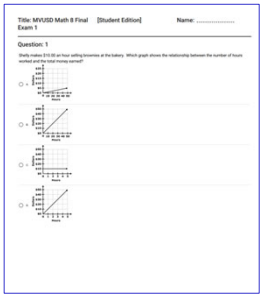
Guaranteed & Viable Curriculum
Common Assessments

Final Exam



Title: MVUSD Math 8 Final [Student Edition] Name: .....
Exam 1

Question: 1

Unit Exam

Richard wants to purchase one large pizza and some soft drinks for a club meeting. He compares the prices at two restaurants.

Each soft drink at the first restaurant has the same price. The table below shows y, the total price of one large pizza and x soft drinks at the first restaurant.

Prices at the First Restaurant

x	y
1	$19.25
2	$20.50
3	$21.75
4	$23.00
5	$24.25

At the **second** restaurant, the total price, y, of one large pizza and x soft drinks can be represented by the equation below.

$y = 1.5x + 18$

Which of the following statements is true?

Solution Tree

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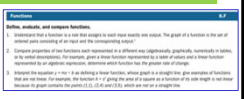
Guaranteed & Viable Curriculum
The Math of a Math Final



- Essential = A third of all Standards
- About 25-40 Math Standards per year.
  - 4-5 Standards in each of the 6-10 Units.
  - 1-2 Essential, 2-3 supporting.
- For Each Final (based on 20 Standards):
  - 7 Essential, 13 supporting.
  - 3-5 questions for each essential standards. 1 for each supporting
- 3 Questions(7 Essentials) + 1 Question(13 Supporting) = 34 Qs.
  - Trim by Clustering Standards

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Lunch

Up next:

Common Unit Assessment

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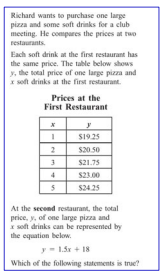
Guaranteed & Viable Curriculum
Common Unit Assessments

- 4-5 Standards in each of the 6-10 Units.
- 1-2 Essential, 2-3 supporting.
- 3 Questions(2 Essentials)
  + 1 Question(3 Supporting) = 9 Qs.
- Cumulative (Spiral) Essential Stanards

Unit Exam



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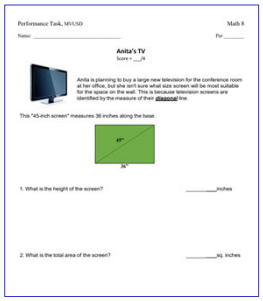
Guaranteed & Viable Curriculum
Bonus GVC Components

Performance Task


Performance Task, MVUSD Math 8

Name: _____ Per: _____

Anita's TV

Score = ___/4

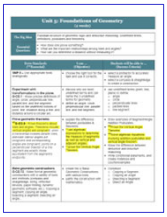
Anita is planning to buy a large new television for the conference room at her office, but she isn't sure what size screen will be most suitable for the space on the wall. This is because television screens are identified by the measure of their *diagonal* line.

This "45-inch screen" measures 36 inches along the base.

1. What is the height of the screen? _____inches

2. What is the total area of the screen? _____sq. inches

UPOs


Unit 3: Foundations of Geometry

Prerequisite Skills

Solution Tree

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Top Teacher Moves
for Woodland JUSD

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Solution Tree

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Top Teacher Moves
Our Next Day

May 13

Next Year Prep & Meeting Protocols

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Now USE your GVC Documents…

…with the faith that they can learn it, and that we can teach it to them,



…so, you can change this world, one math lesson at a time.

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