



Got Math Assessments?

A Clinical Approach to Diagnosing and Monitoring Mathematical Understanding in Grades 3-6

Presented by:

John Parker, Director of Instructional Leadership -- Math and Science

Michelle Fox, Assistant Principal Pope and Edgerton Elementary Schools



Learning Targets for Today's Presentation

- Discover how the Puyallup School District developed and implemented the use of common math assessments
- Understand the design of both the formative and diagnostic math assessments
- Learn about different tools to support the use of the common assessments



Agenda

- PSD Math Improvement Plan
- What Does the Research Say?
- Developing the Formative Assessments
- Developing Diagnostic Assessments
- Analyzing Student Work Protocol
- Intervention Resources
- PSD Mathematics Achievement Data
- Next Steps



Take Aways from Today's Session

- E-Copies of the Common Formative Assessments grades 3-6
- E-Copies of the Diagnostic Unit Assessments grades 3-6
- Electronic Excel Scoring Rosters
- Analyzing Student Work Template
- PowerPoint of presentation



A Clinical Approach

- *Clinical diagnosis* is the process of collecting information from patients and determining their problem; it is the essence of medicine. (Lee, Anthony. *The Process of Clinical Diagnosis*.)
- In the same way, *clinical diagnosis of learning* can be thought of as the process of collecting information from students and determining their needs; it is the essence of teaching (Our view).

The Physician's Clinical Process

1. Patient history
2. Physical examination
3. Diagnostic testing
4. Assessment
5. Treatment plan

Lee, Anthony. *The Process of Clinical Diagnosis*.
(2009)



A Teacher's Clinical Approach



- Pre-assessment
- Formative assessments
- Diagnostic testing
- Analysis of student work
- Intervention plan

Various authors and works



Puyallup School District's Comprehensive Math Improvement Plan



- **Our target...** successful completion of high school math so students are college-ready.
- **Students will...**
 - Develop a deep conceptual understanding of core concepts in mathematics through research-based curricula delivered with fidelity
 - Receive appropriate instructional intervention for concepts not yet mastered
 - Take math courses sequenced to master Algebra and Geometry concepts

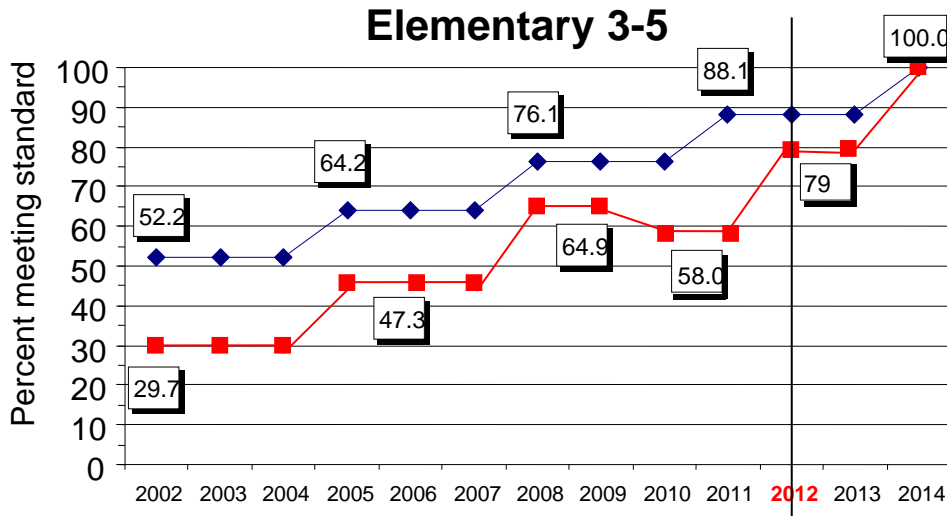


9 Core Objectives

1. Plan is consistent with approach to learning math
2. Coherent K-12 sequence
3. Curriculum aligned to standards
4. Common assessments
5. Complementary interventions
6. Professional development for administrators
7. Professional development for teachers
8. Math courses for every career pathway
9. Partnership with parents



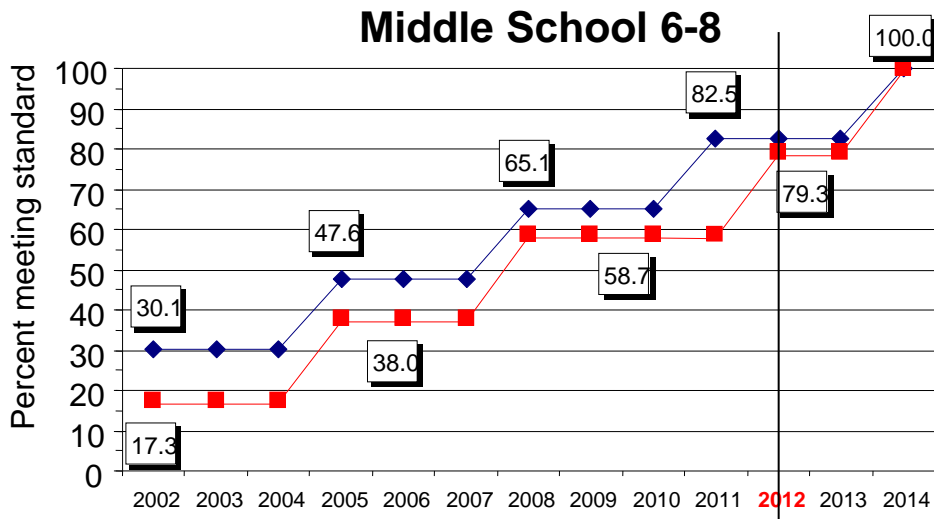
Impetus for Change



Red – Math

Blue – Reading

- AYP: The bar continues to rise



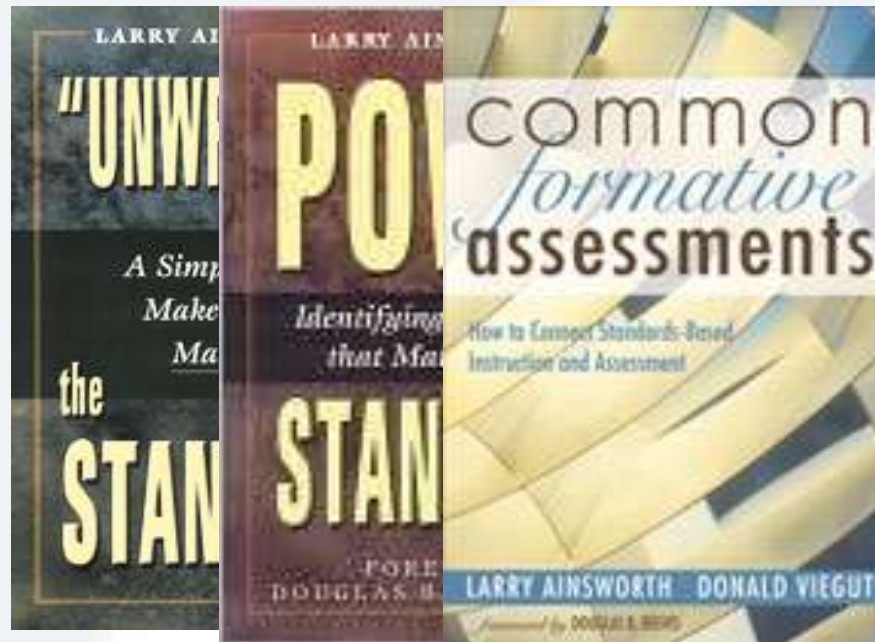
Math MSP 2012:

- 79% in grades 3-5
- 79.3% in grades 6-8



2009 WERA Conference

- Larry Ainsworth spoke on Common Formative Assessments



What *are* effective schools doing to achieve dramatic results in student learning?



The POWER of Common Assessments



“Schools with the greatest improvements in student achievement consistently used common assessments.”

Douglas Reeves, *Accountability In Action* (2004)

L. Ainsworth, 2009 WERA Conference



The POTENTIAL of Common Assessments



"There is a body of firm evidence that formative assessment is an essential component of classroom work and that its development can raise standards of achievement. **We know of no other way of raising standards for which such a strong prima facie case can be made.**"

-Black, P., & William, D. (1998, October 1). Inside the black box: Raising standards through classroom assessment. *Phi Delta Kappan*

-L. Ainsworth, 2009 WERA Conference



How Much of a Difference Can Formative Assessments Make?



- Black and Wiliam (1998) examined 250 research studies on classroom assessment that focused on the question, *does formative assessment improve learning?*
- Through this examination, they discovered that the **achievement gains are “among the largest ever reported for education interventions.”**
- Typical effect sizes were measured ranging from 0.4 to 0.7.
- Black and Wiliam concluded that **if mathematics teachers were to focus their efforts on formative classroom assessment, student learning gains would be significant.**

L. Ainsworth, 2009 WERA Conference



John Hattie “Visible Learning”

- Fifteen years of research
- Synthesis of 800+ meta-analyses of teaching practices
- Providing Formative Assessment had an effect size of 0.9

“When teachers were required to use data and evidence based models, effect sizes were higher than when data were evaluated by teacher judgment.”

Hattie, John (2008) *Visible Learning: A Synthesis of Over 800 Meta-Analyses Relating to Achievement*.



Two Types of Assessments

- **Common Formative Assessments**

- Can be used throughout a unit of instruction to monitor learning
- Used to inform a teacher of their students' progress towards mastery of each PE

- **Diagnostic Unit Assessments**


- Aligned to the Washington State Core Content Standards in Math
- Used to identify students needing intervention and inform teacher's instruction

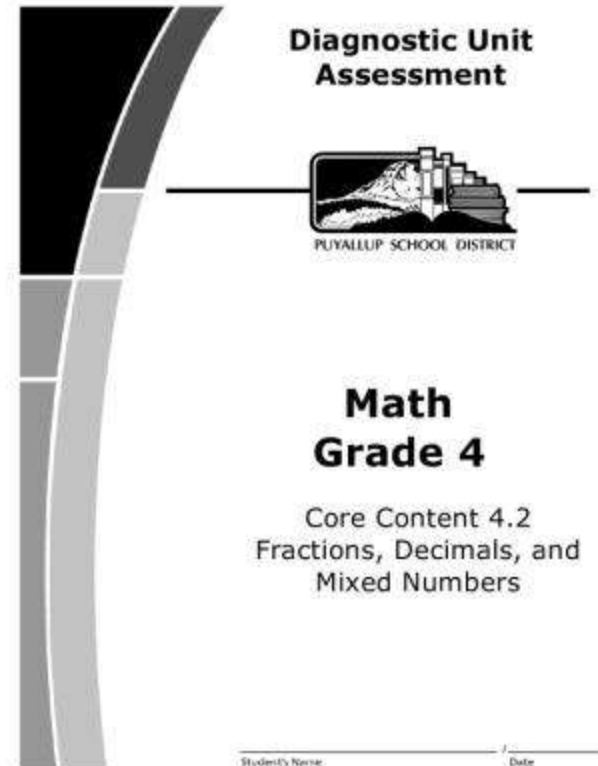


Name _____ Date _____


Common Formative Math Assessment 4.2.F

- For multiple choice items, shade in the circle in front of the answer choice.
- For completion items, write the correct answer on the answer blank provided.

| | |
|--|---|
| <p>1. Which of these is equivalent to $\frac{1}{3}$?</p> <p><input type="radio"/> A. $\frac{3}{12}$</p> <p><input type="radio"/> B. $\frac{2}{12}$</p> <p><input type="radio"/> C. $\frac{1}{3}$</p> | <p>2. Fill in the blank with a fraction that is equivalent to $\frac{1}{2}$.</p> <p>$\frac{1}{2} = \frac{\square}{\square}$</p> |
| <p>3. What fraction is equivalent to the shaded portion of the rectangle?</p>  <p><input type="radio"/> A. $\frac{4}{6}$</p> | <p>4. Write the missing numerator to create two equivalent fractions.</p> <p>$1\frac{1}{4} = \frac{\square}{4}$</p> |



Diagnostic Unit Assessment



PUYALLUP SCHOOL DISTRICT

Math Grade 4

Core Content 4.2
Fractions, Decimals, and Mixed Numbers

Student's Name _____ Date _____

Formative Assessment – Quick Checks for Understanding



Teacher Development in the Test and Item Specifications



- Provided Professional Development with the goal of increasing teachers' knowledge of the math standards and test/item specifications for the MSP
 - Understand the design of the MSP and Test Map
 - Identify which performance expectations will be assessed on the Measurements of Student Progress (MSP)
 - Discuss instructional implications of the Test and Item Specifications



Collaborative Item Writing Process



- Pope and Edgerton Elementary teachers in grades 3-6
- Teachers worked in grade level teams
- Stimulus, Stem, and Prompt Rules were used during item writing
- Wrote 4-point assessments
 - Multiple Choice, Completion, or Short Answer
- Question formats to mirror test item question formats for the MSP
- Used district adopted and supplemental curriculum to assist in item writing process

Stimulus, Stem and Prompt Rules



Item Specifications: Grade 3

3.1 Core Content: Addition, subtraction, and place value (Numbers, Operations)

Stimulus, Stem, and Prompt Rules

- Use Item Development Guidelines at the beginning of this document.
- Stimulus may include number words through ten thousand, e.g., one, twelve, thirty-five.
- Answer choices may be symbolic or pictorial.
- Items may include illustrations of base-ten blocks, tally marks, cubes, sticks, number lines, or other counting manipulatives.
- Number lines may be used when asking students to order and compare the magnitude of whole numbers.
- Number lines will have the necessary reference points labeled using whole numbers.
- Computation items may appear either in a vertical or horizontal format.
- Item assessing 3.1.A may use the symbols $<$, $>$, or $=$.
- Items assessing 3.1.C. will use whole numbers and sums less than or equal to ten thousand. The number of addends will be five or fewer.



The Common Formative Math Assessments



Items written to match the format they will be assessed on the MSP

•Item bank created for each PE Assessed on the MSP

•4 points for each assessment

•Multiple Choice – 1 point
•Completion - 1 point
•Short Answer - 2 points

Name _____ Date _____

Common Formative Math Assessment 4.2.F

- For multiple choice items, shade in the circle in front of the answer choice.
- For completion items, write the correct answer on the answer blank provided.

1. Which of these is equivalent to $\frac{1}{3}$?

- A. $\frac{3}{12}$
- B. $\frac{2}{12}$
- C. $\frac{1}{3}$

2. Fill in the blank with a fraction that is equivalent to $\frac{1}{2}$.

$$\frac{1}{2} = \frac{\boxed{}}{\boxed{}}$$

3. What fraction is equivalent to the shaded portion of the rectangle?

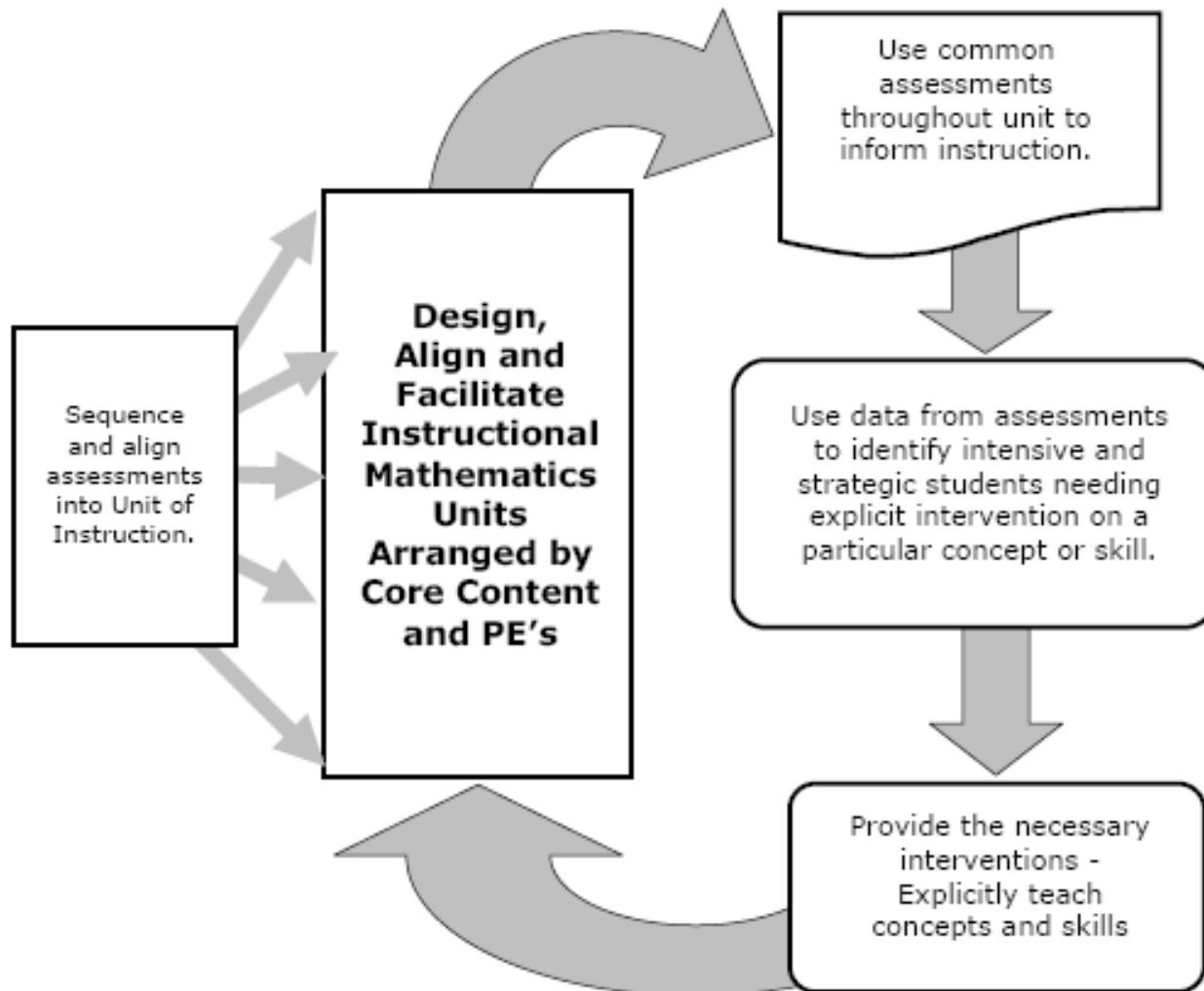


- A. $\frac{4}{6}$
- B. $\frac{4}{12}$
- C. $\frac{12}{8}$

4. Write the missing numerator to create two equivalent fractions.

$$1\frac{4}{4} = \frac{\boxed{}}{4}$$

Our Formative Assessment Cycle



February 2012

Grade 3 Math Pacing & Assessment Calendar

SUN MON TUE WED THU FRI SAT



Bridges Lessons are typed in purple.

Diagnostic Unit Assessment windows identified

Standards alignment serves as a guide for giving the Common Formative Assessments

Lesson alignment and pacing provided to all teachers

| SUN | MON | TUE | WED | THU | FRI | SAT |
|--|--|---|---|---|--|-----|
| | | | 1 U4 S21 Supp. Set A2 Act.1; 3.2.G; 3.2.A; 3.2.C; 3.2.D; 3.2.F | 2 U4 S22 Supp. Set A2 Act.2; 3.2.G; 3.2.A; 3.2.C; 3.2.D; 3.2.F | 3 U4 S23 3.2.B; 3.2.C | 4 |
| 5 | 6 U4 S24 Unit 4 Post-Assessment | 7 U5 S1 Unit 5 Pre-Assessment | 8 U5 S2 Supp. Set A3 Act.1 3.1.C; 3.1.D; 3.1.E | 9 U5 S3 | 10 U5 S4 3.1.B | 11 |
| Post-Assessment for All Schools: Administer Diagnostic Unit Assessment 3.2 | | | | | | |
| 12 | 13 U5 S5 3.1.B; 3.1.C; 3.1.D | 14 U5 S6 3.1.A; 3.1.C | 15 U5 S7 | 16 U5 S8 3.1.C; 3.1.E; 3.5.C | 17 Mid-Winter Break No School | 18 |
| 19 | 20 President's Day No School | 21 U5 S9 Supplement A3 Act 2 Mult. Fluency Checkup 3 | 22 U5 S10 3.1.C; 3.1.D; 3.1.E | 23 U5 S11 3.1.D | 24 U5 S12 3.1.D | 25 |
| 26 | 27 U5 S13 3.1.C; 3.1.E | 28 U5 S14 Supp. Set A3 Act.3 3.1.A; 3.1.C; 3.1.E | 29 U5 S15 3.1.A | | | |

Windows are shown in YELLOW.

Windows for the District Diagnostic Unit Assessments are provided.

NOTE: Teachers will enter Diagnostic Unit Assessment data one week after the testing window closes.



Classroom Use of Formative Assessments



- In a whole group:
 - Put item under a document camera
 - Provide time for students to complete the item in their math journal or on a white board
 - Students can respond with answer by holding up colored cards for multiple choice or writing answer on white boards
 - Can be given as a pencil/paper assessment
- In small group:
 - Teacher can model problem solving
 - Items can be completed together/independently using white boards or math journals



After Giving a Common Formative Assessment...

Use the data to drive instruction

PROVIDE INTERVENTION: Explicit, targeted and focused instruction in concepts and skills not yet mastered



Analyzing Student Work Protocol



Analysis of Student Work/Common Assessments

Teacher Name: _____ Grade: _____

Performance Expectation Addressed: _____
Description of Performance Expectation: _____

Student Names:

| 0-1 Below Standard | 2 Approaching Standard | 3 Meeting Standard | 4 Exceeding Standard |
|-----------------------|---------------------------|-----------------------|-------------------------|
| | | | |

Error Analysis:

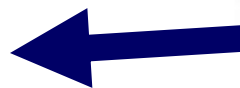
| Common Errors | Student Misconceptions |
|---------------|------------------------|
| | |

Teachers meet in their PLCs
(Grade Level Teams) to:

**Step 1: Sort
assessments
by score level**



**Step 2: Identify
common errors
and student
misconceptions**



Analyzing Student Work Protocol



| Grade Level Intervention Plan | | Intervention Time: _____ | | Grade Level: _____ | |
|---|--|--------------------------|--|--------------------|--|
| Intervention Teacher | | | | | |
| Description of Student Needs/Level | | | | | |
| Specific skills/concepts targeted | | | | | |
| Instructional Materials, Resources, and Strategies to be Used | | | | | |
| Student Names | | | | | |

Based on the analysis of common assessment, what changes will you make to your core math instruction?

Step 3: Identify student needs and teacher providing instruction

Step 4: Group students according to need

Step 5: Reflect on changes that need to be made to core math instruction

Math Intervention Notebooks



PUYALLUP SCHOOL DISTRICT


Grade 4 Math Intervention Notebook

- Organized by Performance Expectations that are assessed on the MSP
- Used core curriculum and supplemental lessons
- Two sections for each Performance Expectation
 - Intensive Interventions
 - Strategic Interventions


Questions, Answers, and Your Feedback



The Common Diagnostic Math Assessments



**Diagnostic Unit
Assessment**



PUYALLUP SCHOOL DISTRICT

**Math
Grade 4**

Core Content 4.2
Fractions, Decimals, and
Mixed Numbers

Student's Name _____ Date _____



Diagnostic Unit Math Assessments



How can these be used?

- A **PRE-ASSESSMENT** to gauge what students already know
- A **DIAGNOSTIC** assessment to identify what students need to know to meet standard
- A **SUMMATIVE ASSESSMENT** to measure what students learned

The Design of the Diagnostic Unit Assessments



- Each unit assessment is 10-18 questions in length
- Each unit corresponds to the Core Content for the grade level (e.g. 3.1 addition, subtraction and place value)
- Each item on the assessment is aligned to the math performance expectations (P.E.'s)
- Most assessments have two items written for each P.E. assessed on MSP



The Design of the Diagnostic Unit Assessments



- Test questions match the item format that they will be assessed on the MSP
 - » Multiple Choice
 - » Completion
 - » Short Answer
- Scoring guides are provided on the answer key that correspond to cut scores on the MSP



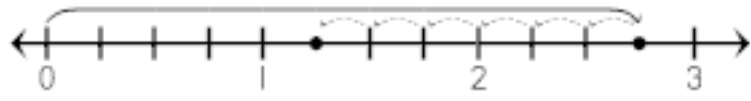
Multiple Choice & Completion - 1 Point



PE's are clearly identified

5.2.A

7. Which expression connects to the visual representation below?



- A. $2\frac{3}{4} - 1\frac{1}{4}$
- B. $1\frac{1}{4} + \frac{6}{4}$
- C. $\frac{6}{4} - 1\frac{1}{4}$

5.2.G

8. Sandra is making a dollhouse and she wants to put a popsicle stick border around the perimeter of it. The perimeter of the dollhouse is 180 inches. Each popsicle stick measures $5\frac{1}{8}$ inches long. Estimate how many popsicle sticks she will need in order to go around the dollhouse.



Write your answer on the line.

Sandra will need approximately _____ popsicle sticks to go around the perimeter of the dollhouse.

Items written to look and feel like the MSP



Short Answer – 2 points



5.2.H

15. Desiree's science fair project tested the question, "Does the amount of oil used in a brownie recipe effect the height of the brownies?" She controlled all the variables except the amount of oil she used in the recipe.

Brownie Recipe Results



| Amount of Oil Used in Recipe | Height of Brownies |
|------------------------------|--------------------|
| $\frac{1}{4}$ cup | 1.7 cm |
| $\frac{1}{3}$ cup | 1.52 cm |
| $\frac{1}{2}$ cup | 1.25 cm |

What was the difference in the brownie height from the recipe using $\frac{1}{4}$ cup oil and $\frac{1}{3}$ cup oil?

$$\begin{array}{r} 6\ 10 \\ 1.70 \\ -1.52 \\ \hline 0.18 \end{array}$$

The difference in brownie height from the recipe using $\frac{1}{4}$ cup oil and $\frac{1}{3}$ cup oil was 0.18 cm.

One point for work leading to the right answer

One point for the right answer



Answer Keys and Scoring Rubrics



5th Grade - Math
5.2 Addition and Subtraction of Fractions and Decimals
Common Unit Assessment Answer Key

| | Standard | Pts | Answer |
|----|----------|-----|-----------|
| 1 | 5.2.D | 1 | C |
| 2 | 5.2.C | 1 | B |
| 3 | 5.2.F | 1 | A |
| 4 | 5.3.E | 1 | 1 |
| 5 | 5.2.B | 1 | A |
| 6 | 5.2.F | 1 | 528.682 |
| 7 | 5.2.A | 1 | A |
| 8 | 5.2.G | 1 | 30 |
| 9 | 5.2.D | 1 | C |
| 10 | 5.2.H | 2 | \$24.25 ← |
| 11 | 5.2.C | 1 | B |
| 12 | 5.2.A | 1 | C |
| 13 | 5.2.B | 1 | A |
| 14 | 5.2.E | 1 | C |
| 15 | 5.2.H | 2 | 0.18 ← |
| 16 | 5.2.G | 1 | 10½ |

1pt for answer
1 pt for showing
work that leads to
answer.

Scoring rubrics help identify students needing intervention

TOTAL 18

Listed below are score values assigned to number of points earned. These ranges are closely related to score ranges found on the MSP. Grades assigned to students should not be based on one assessment of learning. Multiple sources should be used.

| | 1 | 2 | 3 | 4 |
|---------------|-----------|-----------|-----------|-------------------|
| | Intensive | Strategic | Benchmark | Exceeds Benchmark |
| Points Scored | 0-5 | 6-11 | 12-17 | 16-18 |

Multiple Choice = 10 questions
Short Answer = 2 questions
Completion Items = 4 questions
TOTAL = 16 questions

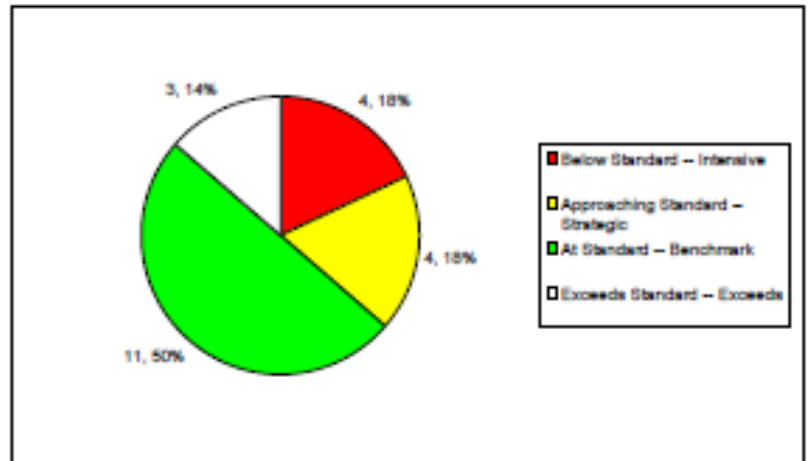
Grade 3 Diagnostic Unit Math Assessment
3.2 Concepts of Multiplication

Collecting the Data: Using the Electronic Scoring Roster

| Student Names | 3.2.A | | 3.2.B | | 3.2.C | | 3.2.G | | 3.2.H | | Raw Score | Score Level |
|---------------|-------|---|-------|---|-------|---|-------|---|-------|----|-----------|-------------|
| | 4 | 9 | 1 | 6 | 2 | 8 | 3 | 5 | 7 | 10 | | |
| 1 Jesse | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 4 | 1 |
| 2 Cole | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 8 | 3 |
| 3 Izzy | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 9 | 3 |
| 4 Tevin | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 6 | 2 |
| 6 Itzel | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 1 |
| 8 Citlaly | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 7 | 2 |
| 7 Joanna | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 2 | 10 | 3 |
| 8 Phillip | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 8 | 3 |
| 8 Braydyn | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 9 | 3 |
| 10 Alex | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 10 | 3 |
| 11 Andrew | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 10 | 3 |
| 12 Jordana | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 11 | 4 |
| 13 Perla | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 |
| 14 Katelyn | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 2 | 8 | 3 |
| 16 Brendan | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 9 | 3 |
| 18 Zeke | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 11 | 4 |
| 17 Kylie | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 2 | 11 | 4 |
| 18 Ethan | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 8 | 3 |
| 19 Spiro | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 7 | 2 |
| 20 Kahnora | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 8 | 3 |
| 21 Mitchell | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 5 | 2 |
| 22 Melanie | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |

| | |
|-------|---|
| 3.2 A | Represent multiplication as repeated addition, arrays, counting by multiples, and equal jumps on the number line, and connect each representation to the related equation. |
| 3.2 B | Represent division as equal sharing, repeated subtraction, equal jumps on the number line, and formation of equal groups of objects, and connect each representation to the related equation. |
| 3.2 C | Determine products, quotients, and missing factors using the inverse relationship between multiplication and division. |
| 3.2 G | Multiply any number from 11 through 19 by single-digit number using the distributive property and place value concepts. |
| 3.2 H | Solve single- and multi-step word problems involving multiplication and division and verify the solutions. |

| | |
|-----------------------------------|----|
| Below Standard -- Intensive | 4 |
| Approaching Standard -- Strategic | 4 |
| At Standard -- Benchmark | 11 |
| Exceeds Standard -- Exceeds | 3 |



Using the Data to Inform Instruction

- **INTERVENTION** ~ Provide explicit, targeted and focused instruction in concepts and skills not yet mastered



Small Group Instruction



5th Grade Math Intervention Groups for Core Content 5.2

| 5.2.A | 5.2.C | 5.2.E | 5.2.H |
|---------|-----------|-----------|-----------|
| Josh A. | Lilly | Mackenzie | Grace A. |
| Piper | Caden | Sophie | Marqarita |
| Cameron | Nathan | Luis | Megan |
| Josh F. | Mackenzie | Mackayla | Lilly |
| Todd | Sophie | Alex | Brandon |
| Hayley | Luis | | Caden |
| | Alex | | |

Whole Class Reteaching: 5.2.B



Math Intervention Notebooks



PUYALLUP SCHOOL DISTRICT

Grade 5 Math Intervention Notebook



Questions, Answers, and Your Feedback



Using Data to Examine the Impact on Student Achievement in Math



3 Sources of Data:

- Teacher Survey Data
- MSP Math Annual Data
- MSP Math Cohort Data



Math Assessment Survey Data

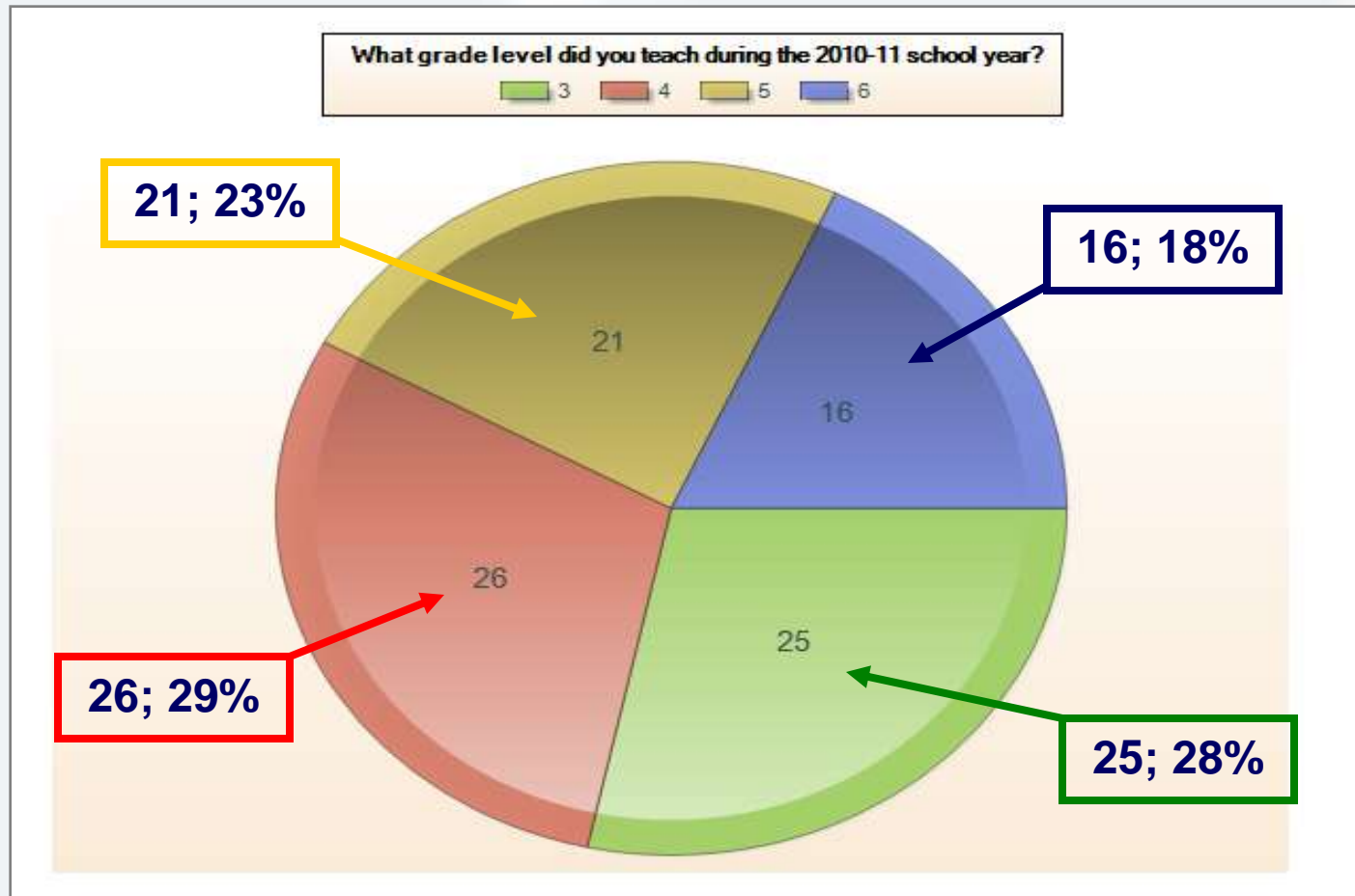


zoomerang[®]
Online Surveys & Polls



What grade level did you teach during the 2010-11 school year?

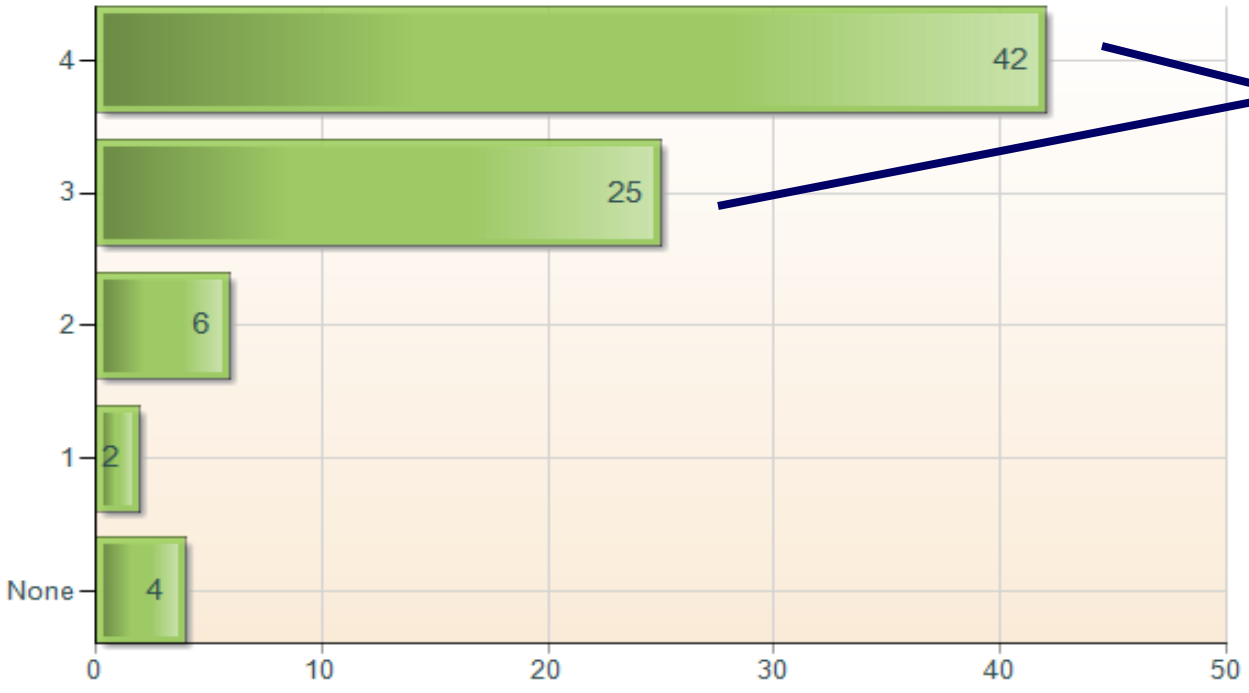
90 teachers surveyed; 38% participation rate



Prevalence of Use: Diagnostic Unit Math Assessments



In the 2010-11 school year, how many of the Diagnostic Unit Math Assessments did you administer to your students? (There are 4 Diagnostic Unit Assessments in grades 3, 5, and 6 and there are 3 Diagnostic Unit Math Assessments in grade 4).



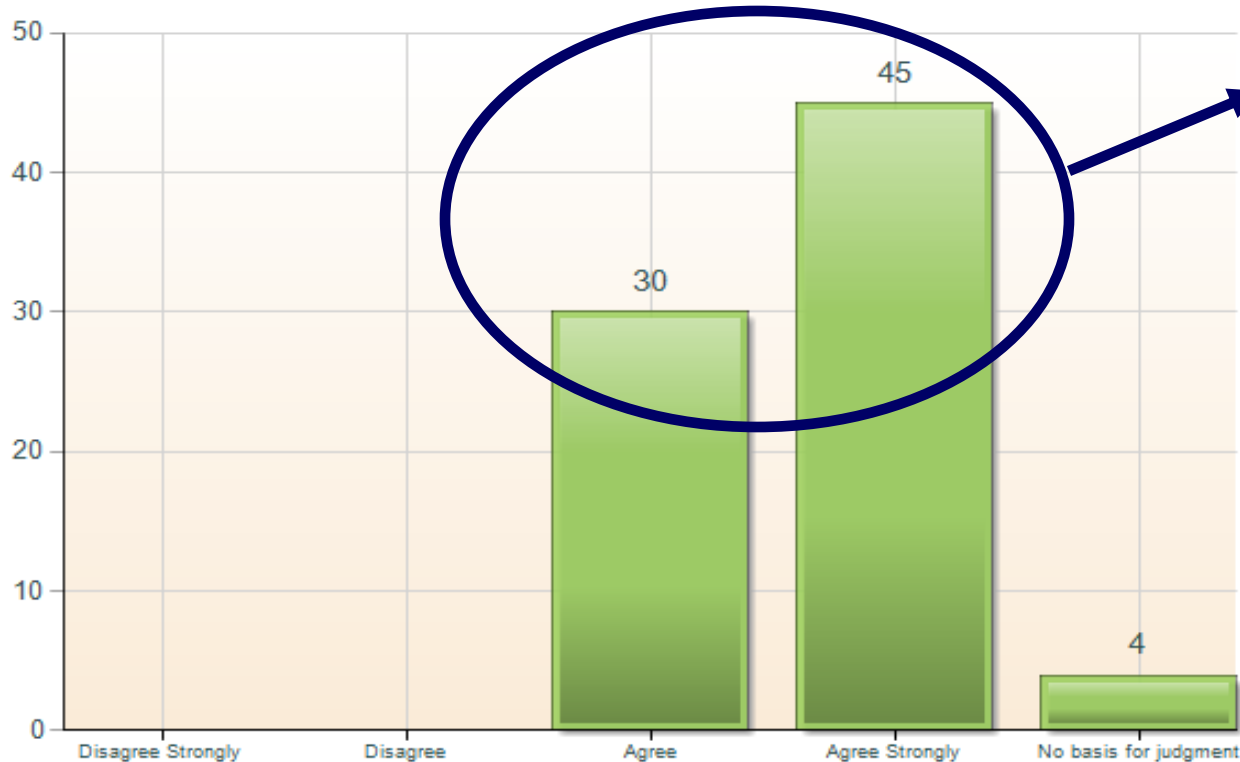
74% of teachers surveyed used all or most of the Diagnostic Assessments last year



Using the Data from the Diagnostic Assessments to Drive Instruction



After scoring and analyzing the data from the Diagnostic Unit Math Assessments, I used that data to inform my instruction.



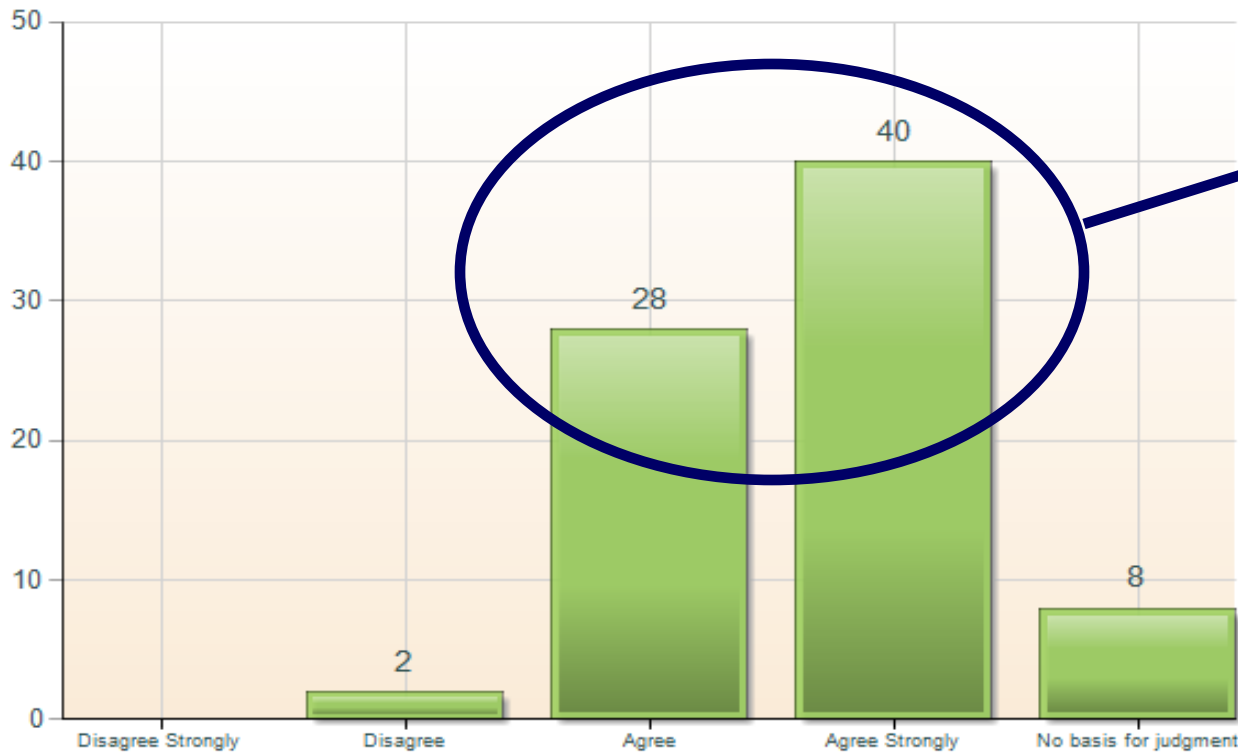
83% of teachers surveyed used the data from the Diagnostic Assessments to drive their instruction



Using Data from Common Formative Assessments to Inform Instruction



After scoring and analyzing the data from the 4 point Common Formative Math Assessments, I used the data to inform my instruction.



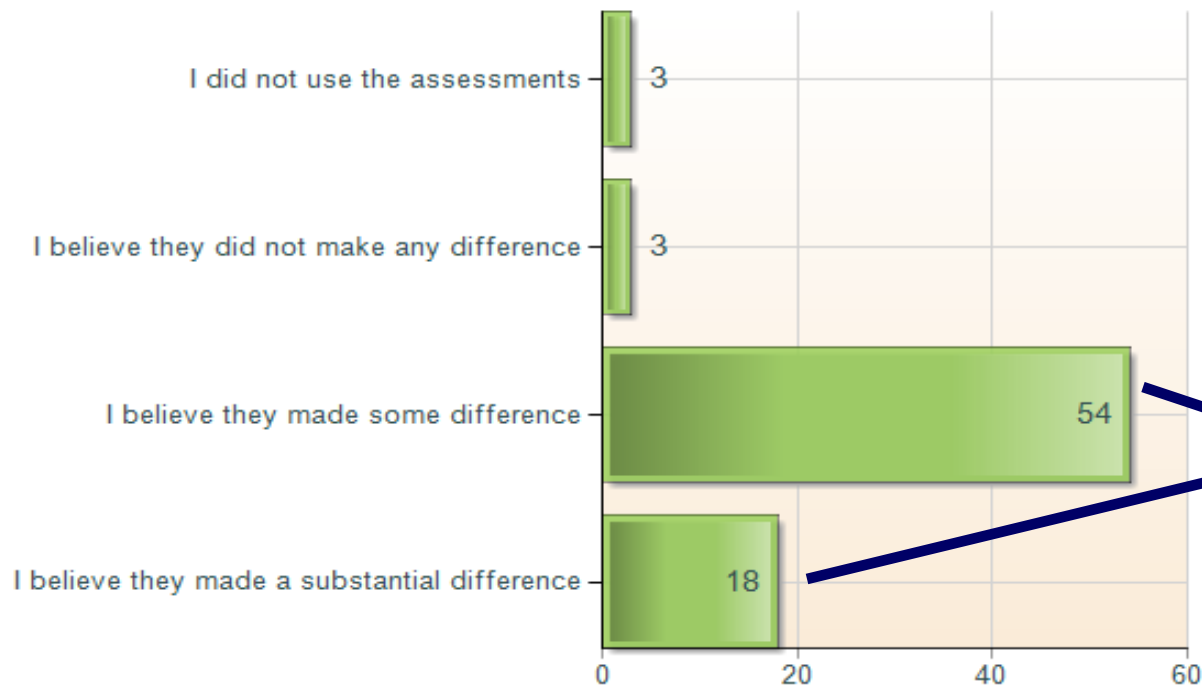
97% of teachers surveyed used the data from the Common Formative Assessments to drive their instruction



Impact of Using the Assessments on MSP Scores



Think about what you may have done differently last year in math compared to previous years. To what degree do you feel the Diagnostic Assessments and the Common Formative Assessments helped contribute to the success of your students on the math MSP last year?



80% of teachers surveyed believe the math assessments helped contribute to higher MSP scores

Walk the Walls Activity

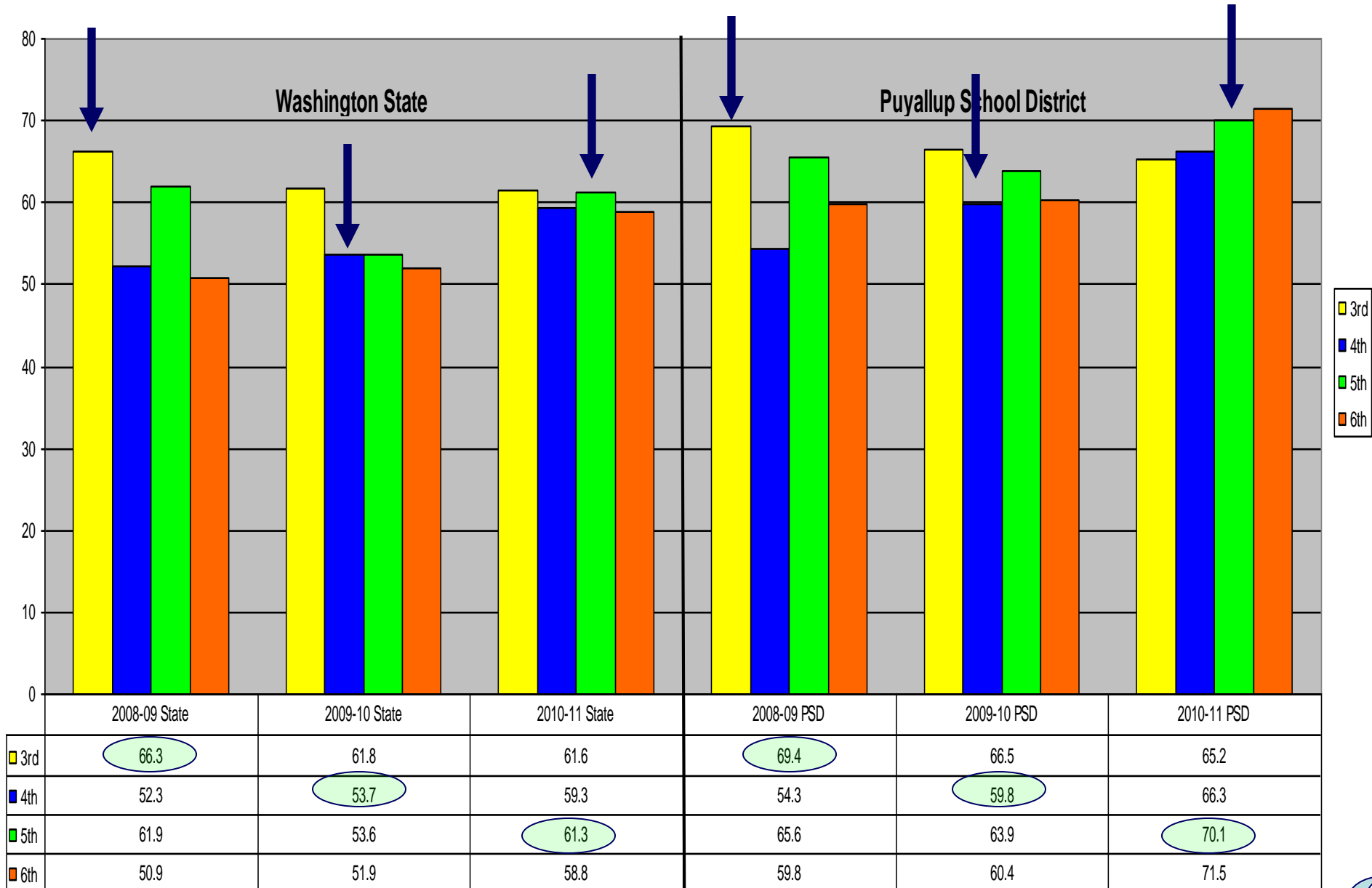
Take a few minutes to read some of comments teachers surveyed said.



Does the Data Support the Work?



MSP Math Scores 2009, 2010, 2011



Percent Change in MSP Cohort Data from 2009-10 to 2010-11



| | State 2010 to 2011 | PSD 2010 to 2011 |
|------------|------------------------------|----------------------------|
| 3rd to 4th | -2.5% | 0.4% |
| 4th to 5th | 7.6% | 11.2% |
| 5th to 6th | 5.2% | 9.1% |



PSD Student Achievement Gains

- Three elementary schools receive School of Distinction Awards
- All three elementary schools “in improvement” in math last year are no longer in improvement
- Puyallup School District experienced the largest gains in math last year in grades 3-6



Next Steps

- Continue teacher collaboration on improving common assessments and using the data to impact achievement
- Write additional formative assessments
- Continue to disaggregate data to determine impact on achievement gap
- Collect data district wide
- Create primary formative assessments
- Revise assessments to align with the Common Core Standards



Assessing What we Value...

Valuing What we Assess..



Our parting gifts:

- E-Copies of the Common Formative Assessments Grades 3-6
- E-Copies of the Diagnostic Unit Assessments Grades 3-6
- Electronic Excel Scoring Rosters
- Analyzing Student Work Template





**Thank you for
attending our
session!**

**John Parker, Director of Instructional Leadership
Math and Science, Puyallup School District
parkerjg@puyallup.k12.wa.us 253-840-8936**

**Michelle Fox, Assistant Principal Pope and Edgerton
Elementary Schools, Puyallup School District
foxmm@puyallup.k12.wa.us 253-820-8709**

