



Using *DOMA Pre-Algebra* to Support Standards-Based Core Math Curriculum

Overview: *DOMA Pre-Algebra*'s greatest advantage for the classroom teacher is in using its detailed student reports to identify each student's gaps within the 12 constructs that it spans within the Pre-Algebra domain. The key is aligning this student data to reflect on the weekly pacing guide or unit that you, the teacher, are scheduled to teach. This will improve classroom learning by ensuring that students have mastery of the prerequisite skills needed for each unit.

#1: Two weeks out, go to your pacing guide or unit preview to see which standards or concepts will be covered in the unit.

Steps: This week, look to see what students will need to know two weeks out. Assign lessons to scaffold the main unit's targets during personalized learning time next week.

Mathematics	Grade 4	Marking Period 2
Major Content (Green)	Supporting Content (Blue)	Additional Content (Yellow)

**** Highlighted assessments are mandatory for all students to take electronically using the Go Math Personal Math Trainer.**

Chapters	Standards	Major Assessment	Marking Period
4 (Lessons 4.7, 4.8, 4.9, 4.10, 4.11, 4.12)	4.OA.A 4.NBT.B 4.NBT.A.3 4.NBT.B.6	Chapter 4 Chapter Assessment	2
5	4.OA.B 4.OA.C 4.OA.B.4 4.OA.C.5	Chapter 5 Chapter Assessment	2

You'll need to connect the standard to the skills, or look at the unit's pre-planning page in the teacher's guide to see what skills will be required. PLC teams can also help here!



#2: Go to the *DOMA Pre-Algebra* tab and identify which skill areas you believe should already be mastered in order to learn this unit.

Steps: Go to the *DOMA Pre-Algebra* tab.

- 1) Click on the "Display Class Mastery" button.



- 2) Choose the area(s) you want to examine. For example, if we are going to have a unit on probability, I might want to make sure students understand fractions basics and ratios. These would be foundational skill areas.

- ☐ Integer Operations
- ☒ Fraction Operations 
- ☐ Decimal Operations
- ☐ Comparing and Converting
- ☐ Estimating and Rounding
- ☐ Evaluating Exponents
- ☒ Ratios and Proportions 
- ☐ Simplifying Expressions
- ☐ Coordinate Graphing
- ☐ Linear Functions and Extending Patterns
- ☐ Simple Equations
- ☐ Geometry
- ☐ Interpreting Data
- ☐ Simple Probability

*This list above corresponds to the 14 areas covered by DOMA Pre-Algebra!
The first five constructs are considered "Basic Math Skills."*

3) View your data...

Results	
Fraction Operations	74 %
Fraction identification	100 %
Simplifying fractions	100 %
Adding fractions with the same denominator	95 %
Subtracting fractions with the same denominator	89 %
Adding fractions with different denominators	84 %
Subtracting fractions with different denominators	63 %
Multiplying fractions	63 %
Dividing fractions	68 %
Adding mixed numbers with regrouping	58 %
Subtracting mixed numbers with regrouping	58 %
Multiplying mixed numbers	58 %
Dividing mixed numbers	47 %
Ratios and Proportions	85 %
Writing as a ratio from a word problem	100 %
Solving proportions (using : symbol)	89 %
Solving proportions (using fractions)	74 %
Solving proportions, word problem	79 %
Rewriting a proportion as a percent	84 %

- 1) Okay, yikes! Lots of students don't know how to multiply or divide fractions or deal with mixed numbers. But we can address this later.
- 2) For now, we want to make sure students know how to adjust up or down a fraction's denominator, since we'll need that for comparing probabilities. So we'll target "Subtracting fractions with different denominators."
- 3) And we can examine "Solving proportions (using fractions)." But this tip sheet will leave that one to do on your own!

4) Click to drill down on “Subtracting fractions with different denominators” ...

Subtracting fractions with different denominators

Show entries

Download Print **Assign**

First Name	Last Name	Correct	HW
Lorenzo	Dawson	N	<input checked="" type="checkbox"/>
Tony	Foster	N	<input checked="" type="checkbox"/>
Brady	Green	N	<input checked="" type="checkbox"/>
Keisha	Gregory	N	<input checked="" type="checkbox"/>
Erika	Harris	N	<input checked="" type="checkbox"/>
Grace	Moss	N	<input checked="" type="checkbox"/>
Lynette	Serrano	N	<input checked="" type="checkbox"/>
Cayla	Calderon	Y	<input type="checkbox"/>
Elvis	Estrada	Y	<input type="checkbox"/>
Frances	Garcia	Y	<input type="checkbox"/>
Crystle	Gill	Y	<input type="checkbox"/>
Michelle	Goodman	Y	<input type="checkbox"/>
Ana	Hahn	Y	<input type="checkbox"/>
Arlene	Joyner	Y	<input type="checkbox"/>
Patrick	Kinney	Y	<input type="checkbox"/>
Teddy	Malone	Y	<input type="checkbox"/>
Chantal	Marks	Y	<input type="checkbox"/>
Lisa	Stokes	Y	<input type="checkbox"/>
Stan	Tillman	Y	<input type="checkbox"/>

Showing 1 to 19 of 19 entries

Previous **1** Next

- 1) Click on the column heading “Correct” to sort by students who got this question correct; “N” means not correct.
- 2) Check the box to select these students.
- 3) Click the “Assign” button to assign these students lessons.

#3: Make a personalized assignment for these students...

The screenshot shows a 'Lesson' creation form with the following sections and numbered callouts:

- Lesson Section:**
 - Title:** A text input field containing 'Review for GoMath Probability Unit' (Callout 1).
 - Instructions:** A text area containing 'Do during station learning or as homework' (Callout 2).
 - Start date:** A date picker set to '09/26/2018'.
 - Due date:** A date picker set to '10/05/2018' (Callout 3).
- Activities for lesson Section:**
 - Type:** A dropdown menu set to 'Khan Academy' (Callout 4).
 - Search lessons...** A search input field (Callout 5).
 - Lesson List:** A list of lessons with checkboxes and preview buttons. A red arrow points from Callout 6 to the checkbox for 'Subtracting fractions with unlike denominators'.
- Students for lesson Section:**
 - Class:** A dropdown menu set to 'Select class'.
 - Assign To:** A list of student names: Erika Harris, Brady Green, Tony Foster, Grace Moss, Kelisha Gregory, Lorenzo Dawson, Lynette Serrano (Callout 7).
 - Class Students:** An empty box for the assigned students.

- 1) Enter in a title such as "Review for GoMath Probability Unit."
- 2) Provide instructions that the student will see, such as "Complete during station learning or as homework."
- 3) Provide a due date--perhaps the Friday before the upcoming unit on the following Monday.
- 4) Select the resource: Khan Academy, *Math Edge*, or any Custom URL.
 - a. A custom URL can be a free resource you find online. You can save great lessons that your PLC finds for your site or a Youtube video by one of your teachers, perhaps "Mr. Johnson's Killer Fractions Basics Lesson."
- 5) Enter in a search term to find Khan or *Math Edge* lessons.
- 6) Drag the lessons over and sort them in order. You can have multiple lessons in an assignment, and they can be a mix of resources.
- 7) See your list of students below. You can edit this list. Add more or remove students.