DOMA Pre-Algebra
Diagnostic Online
Math Assessment

Let's Go Learn
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Assessing Algebra Readiness

Let's Go Learn's *Diagnostic Online Math Assessment (DOMA) Pre-Algebra* provides a detailed examination of students' preparedness for entering Algebra I. *DOMA Pre-Algebra* is useful in assessing middle school, high school and continuing education students to gain a clear understanding of their Algebra readiness. By testing pre-requisite skills, *DOMA Pre-Algebra* provides meaningful feedback to students, parents, and teachers at a critical learning time.

Smart Assessment Adapts to Students

Using Let's Go Learn's adaptive technology, the *DOMA Pre-Algebra* assessment evaluates 14 different areas of math knowledge that educators consider essential for success at the Algebra I level. *DOMA Pre-Algebra* uses middle and high school interfaces to engage secondary learners. In addition, if performance in early, lower-level constructs indicates a possible deficiency, then *DOMA Pre-Algebra* ceases testing and checks either math facts or English language proficiency to further identify students' strengths and weaknesses.

The 14 foundation constructs tested by the *DOMA Pre-Algebra*

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

The *DOMA Pre-Algebra* assessment is divided into three parts:

Part I - Pre-Screening: This section presents students with one question from each of the 14 pre-algebra constructs. These questions are mainly data entry to reduce the chances that guessing will skew the results. Based on the pre-screening results, students may test out of a particular section of Part II: Pre-Algebra Constructs or be given follow-up questions on each of the 14 constructs.

Part II - Pre-Algebra Constructs: These sections are the heart of the assessment and test each of the 14 pre-algebra constructs in detail. Construct selection will vary depending on each student's response. A high error rate may terminate a construct before a student has completed all of the questions.

Part III - Foundation Skills: Students transition to Foundation Skills testing only if errors demonstrate a possible deficit in multiplication math facts or reading comprehension.

Comprehensive Mastery Reporting

DOMA's student management system tracks each student's performance on the *DOMA Pre-Algebra* assessment and allows teachers to sort data in a number of ways, such as by student, assessment date, or level of proficiency on each of the 14 pre-algebra constructs. Teachers may also access *DOMA Pre-Algebra* assessment reports and standards reports through the student management system.

Pre-Algebra Legend
- mastery of construct
- partial understanding of construct
- non-mastery of construct

Scores & Reports Home | Pre-Algebra | Math Basic Skills | Reading K-12

First Name	Last Name	Grade	Last Assess.	Prev. Assess.	Pre-Screen	1	2	3	4	5	6	7	8	9	10	11	12	13	14	MF Time	MF unT	Lang	Detailed Reports
		help	help	help	help	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	help
sort	sort	sort	sort	sort	sort	so	so	so	so	so	so	so	so	so	so	so	so	so	so	sort	sort	sort	
Allan	Delforge	2	3/6/2005	Yes	74%	●	●	●	●	●	●	◒	●	○	●	●	●	●	●	-	-	-	Detail, Standards
Erik	Green	2	3/5/2005	Yes	38%	●	●	◒	○	○	●	●	○	○	○	○	○	○	○	45%	100%	50%	Detail, Standards
Molly	Hunt	2	3/5/2005	-	87%	●	●	●	●	●	●	◒	◒	●	●	●	○	○	●	-	-	-	Detail, Standards
Michael	Nelson	2	3/5/2005	Yes	50%	●	●	●	◒	●	◒	●	◒	◒	○	○	○	●	○	34%	98%	100%	Detail, Standards

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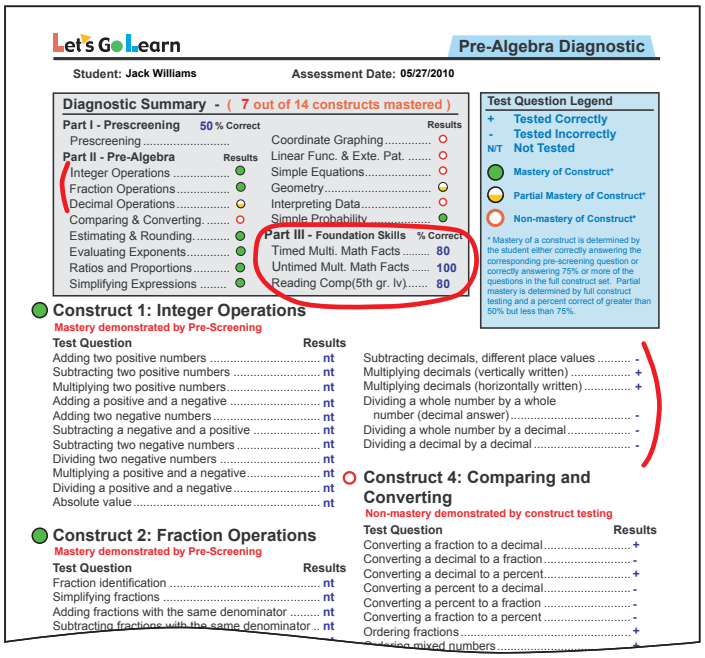

Let's Go Learn — Pre-Algebra Diagnostic

Student: Jack Williams Assessment Date: 05/27/2010

Diagnostic Summary - (7 out of 14 constructs mastered)

Part I - Prescreening 50 % Correct
Prescreening

Part II - Pre-Algebra — Results
Integer Operations
Fraction Operations
Decimal Operations
Comparing & Converting
Estimating & Rounding
Evaluating Exponents
Ratios and Proportions
Simplifying Expressions

Coordinate Graphing
Linear Func. & Exte. Pat.
Simple Equations
Geometry
Interpreting Data
Simple Probability

Part III - Foundation Skills — % Correct
Timed Multi. Math Facts 80
Untimed Mult. Math Facts 100
Reading Comp(5th gr. lv) 80

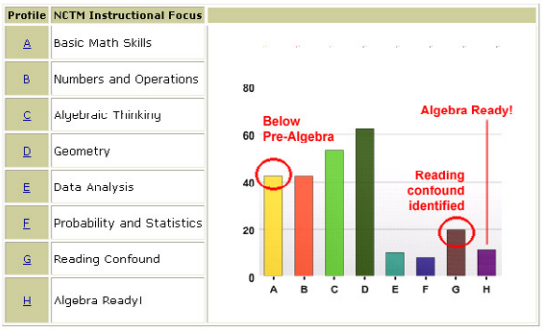
Test Question Legend
+ Tested Correctly
- Tested Incorrectly
N/T Not Tested
Mastery of Construct*
Partial Mastery of Construct*
Non-mastery of Construct*
* Mastery of a construct is determined by the student either correctly answering the corresponding pre-screening question or correctly answering 75% or more of the questions in the full construct set. Partial mastery is determined by full construct testing and a percent correct of greater than 50% but less than 75%.

Construct 1: Integer Operations
Mastery demonstrated by Pre-Screening
Test Question — Results
Adding two positive numbers nt
Subtracting two positive numbers nt
Multiplying two positive numbers nt
Adding a positive and a negative nt
Adding two negative numbers nt
Subtracting a negative and a positive nt
Subtracting two negative numbers nt
Dividing two negative numbers nt
Multiplying a positive and a negative nt
Dividing a positive and a negative nt
Absolute value nt
Subtracting decimals, different place values -
Multiplying decimals (vertically written) +
Multiplying decimals (horizontally written) +
Dividing a whole number by a whole number (decimal answer) -
Dividing a whole number by a decimal -
Dividing a decimal by a decimal -

Construct 2: Fraction Operations
Mastery demonstrated by Pre-Screening
Test Question — Results
Fraction identification nt
Simplifying fractions nt
Adding fractions with the same denominator nt
Subtracting fractions with the same denominator nt

Construct 4: Comparing and Converting
Non-mastery demonstrated by construct testing
Test Question — Results
Converting a fraction to a decimal +
Converting a decimal to a fraction -
Converting a decimal to a percent. +
Converting a percent to a decimal -
Converting a percent to a fraction -
Converting a fraction to a percent -
Ordering fractions +

The detailed student report even shows foundation skills mastery. When students miss basic math skills questions or word problems additional questions turn on to test multiplication math facts and reading comprehension respectively.



Teachers can run an assessment profile report for their entire class (administrators can run this for a school) in order to sort students into NCTM-aligned instructional focus groups.

Clicking on an individual profile group allows teachers to see the students in each group. Furthermore, the class's specific skill overall mastery percentage is listed within each construct. This allows teachers to better meet group and individual student needs.

DOMA: Pre-Algebra Profile D

NCTM Instructional Focus: Geometry

Class: My Class

First Name	Last Name	Grade When Assessed	Last Assess.	# Mast.	Raw Score1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	MF Timed	MF unT
		help	help	help	help	?	?	?	?	?	?	?	?	?	?	?	?	?	?	help	help
sort	sort	sort	sort	sort	sort	go	go	go	go	go	go	go	go	go	go	go	go	go	go	sort	sort
Sarah	Johnson	6.9	07/15/2008	9	9															-	-
Ted	Johnson	7.1	09/27/2006	3	5															-	90%
Bart	Maison	3.9	06/14/2008	9	9.5															-	100%
Justin	Moore	7.2	10/25/2006	10	10															-	-
Tony	Thompson	10	09/07/2006	9	10															-	-
Jack	Williams	5.9	05/27/2008	7	8															-	100%

Students who fall into this category may need additional instruction in geometric concepts including coordinate graphing and basic geometry of two- and three-dimensional figures (Col. 9 and 12). It is important to note, however, that DOMA: Pre-Algebra does not provide students with basic geometric formulae for two-dimensional or three-dimensional figures. If your students are not expected to memorize geometric formulae, you may want to retest this area and provide students with formulae regarding perimeter, area, circumference, surface area, and volume.

Test Question Detail	% of students with mastery
Coordinate Graphing	
Knowledge of quadrants	83%
Knowledge of quadrants	50%
Point identification	50%
Point identification	50%
Knowledge of line equations	33%
Knowledge of slope	17%
Knowledge of y-intercept	33%
Knowledge of line equations	17%
Geometry	
Finding perimeter of a rectangle	17%
Finding area of a square	50%

Comprehensive Reporting Guides Teaching & Placement

Easy-to-read reports provide teachers and parents with a comprehensive yet concise account of students' readiness to enter and find success in the Algebra I classroom. The *DOMA Pre-Algebra* assessment report first shows the percentage correct in the Pre-Screening and Foundation Skills (if administered), followed by detailed information on a student's test results in Pre-Algebra Constructs. For each of the 14 pre-algebra constructs, the report indicates if mastery was demonstrated by Pre-Screening or by completing the construct testing, or if non-mastery was demonstrated by the construct testing. All non-mastery areas are designated as priorities on the report, while some constructs on which a student demonstrated mastery may also be listed as priorities, depending on his or her performance.

Related Let's Go Learn

LGL Pre-Algebra Edge offers differentiated online math instruction guided by the *DOMA Pre-Algebra* assessment.

DOMA Algebra evaluates 11 constructs taught during the crucial Algebra I year.

An *OAASIS*® from Traditional Assessment

Administrators and teachers who need relief from time and labor-intensive assessments now have a solution. *OAASIS*, Let's Go Learn's *Online Adaptive Assessment System for Individual Students*, is a proprietary technology-based platform that simultaneously tests and reports on multiple skills while adapting to each learner's individual ability in real time as a human would. *OAASIS* serves as the foundation for Let's Go Learn's solutions.

Getting Started

To speak with a customer service representative or request a free trial, please contact us today:

Phone 1-866-618-MATH (6284)
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