ALEKS Math Study Guide for Students Who Score 0-13

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Goal: Score at least 14 on ALEKS Attempt/Test 2 or 3

Prep and Learning Module: Prep for **Beginning Algebra** (135 topics)

Strategy: Focus on mastering **the 66 topics listed on pages 4-8** by learning and reviewing them. Prioritize accuracy and understanding over speed.

Recommended Study Benchmarks (for students who score 0-13 with Attempt/Test 1):

	Hours in Learning Module	**Topics Mastered or Learned & Reviewed**
Attempt/ Test 2	At least 10 hours before Attempt/Test 2	At least 66 topics
Attempt/ Test 3	At least 10 more hours before Attempt/Test 3	Continue to review these 66 topics and more topics, as needed

Action Plan:

- Learn at least one new topic a day
- Review at least three topics a day

ALEKS Account Resources:

- **ALEKS Total Pie Progress** - Track topics mastered and learned
- **ALEKS Calculator** - Available for selected questions
- **ALEKS Learn** – Practice and learn new math topics (you may print the **Learning Pages** as study guides)
- **ALEKS Review** – Review previously learned topics (you may print the **Explanation Pages** as study guides)
- **ALEKS Dictionary** – Access definitions of math terms for each topic
- **ALEKS Reports**
- **ALEKS Knowledge Check** – Short quizzes that assess whether you have mastered newly learned topics

WDCE Math Power Boost: A 30-hour review course for students with a score of 13 or less on the ALEKS placement exam.

STEM Learning Centers:

- Free, one-on-one, in-person tutoring for ALEKS test takers
- Study space, computers, printers, and more

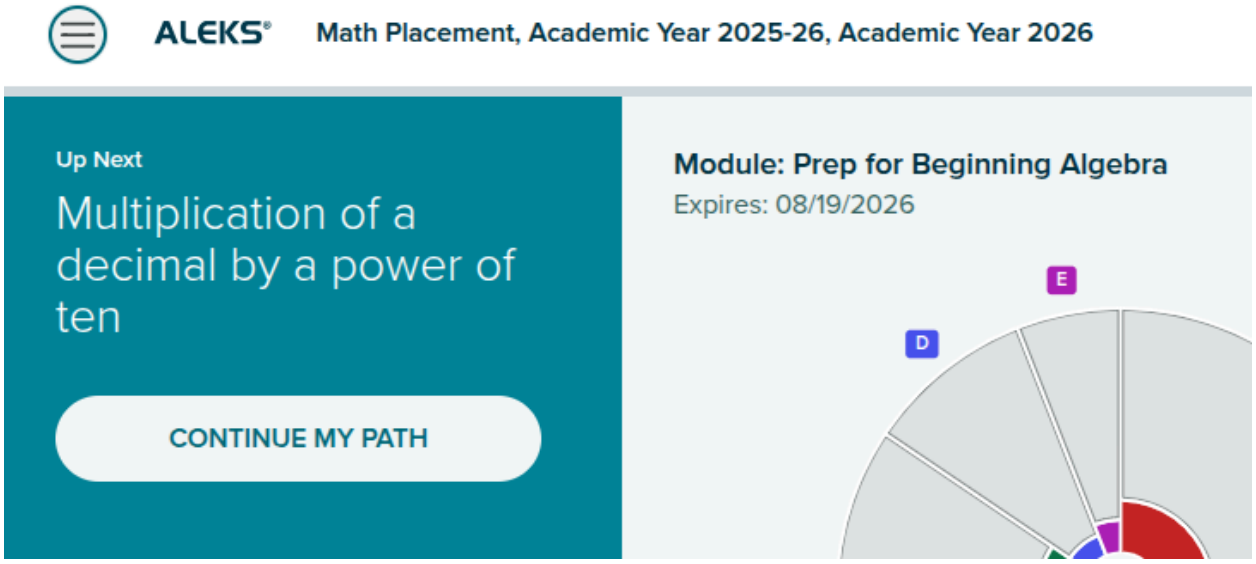
ALEKS Math Study Guide for Students Who Score 0-13

Disability Support Services (DSS):

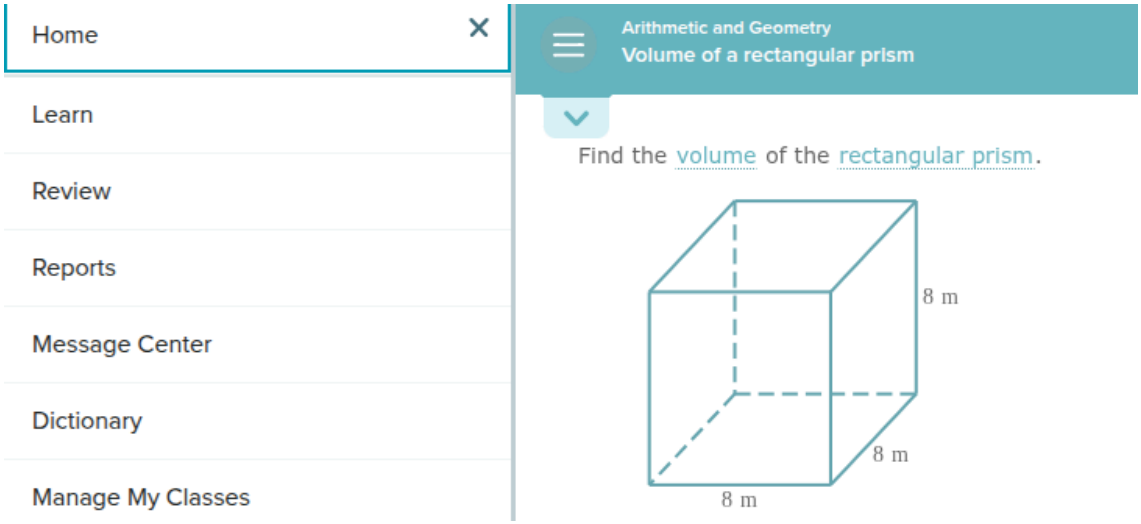
- Accommodations (Calculator and more)
- Tutoring, counseling, and advising

How to Use This Guide

- Focus on the topics listed below (66 selected topics)
- On pages 4-8, mark "**Mastered**" or "**Learned**" as indicated in ALEKS
- Use the "**Reviewed**" column to track your own practice
- Aim to build strong understanding before taking Attempt/Test 2 or 3. Following this plan consistently can help you strengthen your math skills and work toward your placement goal.

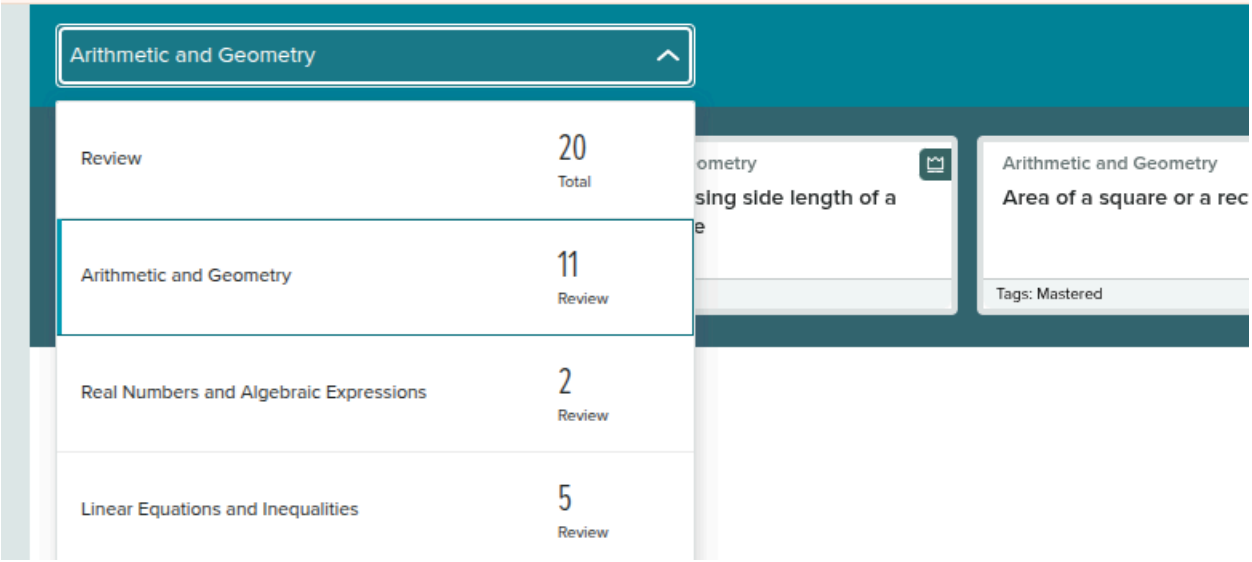


Step 1: In your ALEKS account, click the three horizontal bars in the upper left corner.

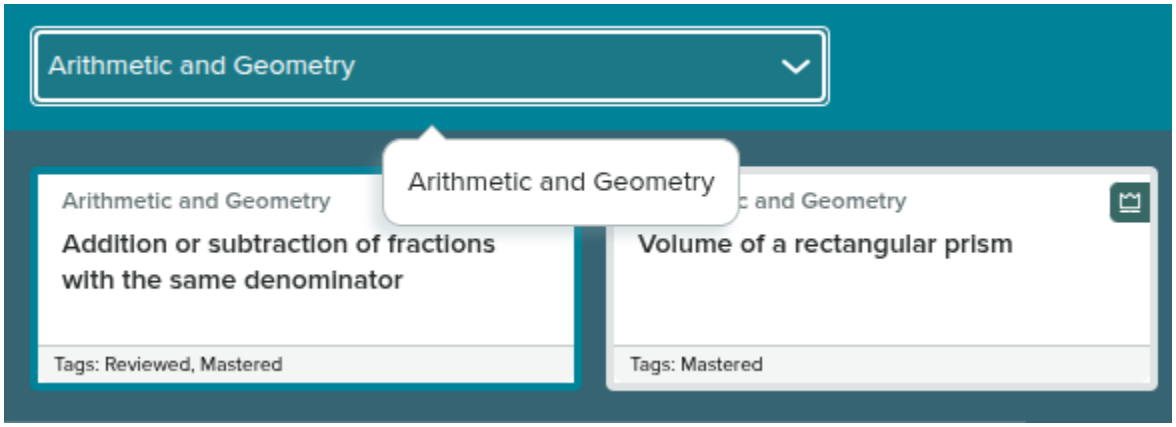


Step 2: Select ***Learn*** or ***Review***.

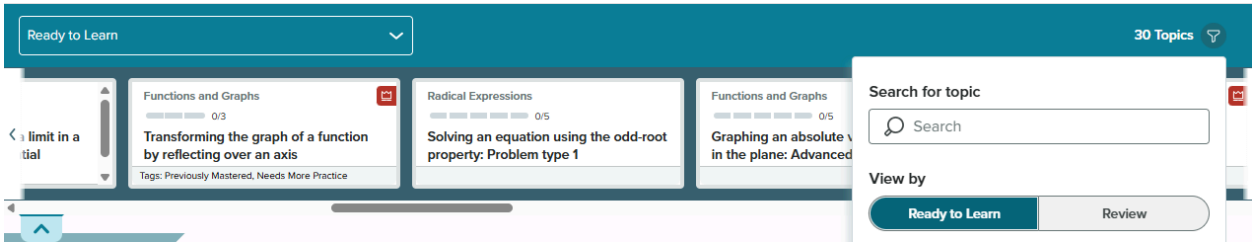
ALEKS Math Study Guide for Students Who Score 0-13



Step 3: Choose the slice of topics you would like to learn or review.



Step 4: Within each slice, select the specific topics you would like to learn or review. After you master or review topics, ALEKS will assign **tags** accordingly.



Step 5: In ***Learn*** or ***Review***, you can use the filter in the upper right corner to search for topics to learn or review.

ALEKS Math Study Guide for Students Who Score 0-13

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Arithmetic and Geometry (31 out of 53 topics selected)

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Whole Numbers (10 out of 10 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Introduction to exponents		
2	Writing expressions using exponents		
3	Introduction to order of operations		
4	Order of operations with whole numbers		
5	Order of operations with whole numbers and grouping symbols		
6	Order of operations with whole numbers and exponents: Basic		
7	Factors		
8	Greatest common factor of 2 numbers		
9	Least common multiple of 2 numbers		
10	Square root of a perfect square		

Decimals (4 out of 17 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Decimal place value: Tenths and hundredths		
2	Rounding decimals		
3	Ordering decimals		
4	Addition of aligned decimals		

Geometry (No topics selected for this section)

ALEKS Math Study Guide for Students Who Score 0-13

Fractions (17 out of 19 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Fractional position on a number line		
2	Plotting fractions on a number line		
3	Equivalent fractions		
4	Simplifying a fraction		
5	Ordering fractions with the same denominator		
6	Using a common denominator to order fractions		
7	Addition or subtraction of fractions with the same denominator		
8	Introduction to addition or subtraction of fractions with different denominators		
9	Addition or subtraction of fractions with different denominators		
10	Product of a unit fraction and a whole number		
11	Product of a fraction and a whole number: Problem type 1		
12	Introduction to fraction multiplication		
13	Fraction multiplication		
14	The reciprocal of a number		
15	Division involving a whole number and a fraction		
16	Fraction division		
17	Mixed arithmetic operations with fractions		

ALEKS Math Study Guide for Students Who Score 0-13

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Real Numbers and Algebraic Expressions (22 out of 31 topics selected)

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Signed Numbers (16 out of 25 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Ordering integers		
2	Plotting integers on a number line		
3	Integer addition: Problem type 1		
4	Integer addition: Problem type 2		
5	Integer subtraction: Problem type 1		
6	Integer subtraction: Problem type 2		
7	Integer subtraction: Problem type 3		
8	Signed fraction addition or subtraction: Basic		
9	Signed fraction addition or subtraction: Advanced		
10	Integer multiplication and division		
11	Signed fraction multiplication: Basic		
12	Signed fraction multiplication: Advanced		
13	Order of operations with integers		
14	Order of operations with integers and exponents		
15	Evaluating an algebraic expression: Whole numbers with two operations		
16	Evaluating a linear expression: Integer multiplication with addition or subtraction		

ALEKS Math Study Guide for Students Who Score 0-13

Properties of Real Numbers (6 out of 6 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Identifying numbers as integers or non-integers		
2	Properties of addition		
3	Distributive property: Whole number coefficients		
4	Distributive property: Integer coefficients		
5	Combining like terms: Whole number coefficients		
6	Combining like terms: Integer coefficients		

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Lines and Functions (3 out of 8 topics selected)

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Sets and Functions (0 out of 1 topics selected)

Graphing Lines (3 out of 7 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Reading a point in the coordinate plane		
2	Plotting a point in the coordinate plane		
3	Graphing a line given its x- and y-intercepts		

ALEKS Math Study Guide for Students Who Score 0-13

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Linear Equations and Inequalities (10 out of 30 topics selected)

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Linear Equations (10 out of 15 topics selected)

#	Topics	Mastered or Learned	Reviewed
1	Additive property of equality with whole numbers		
2	Additive property of equality with integers		
3	Additive property of equality with a negative coefficient		
4	Multiplicative property of equality with whole numbers		
5	Multiplicative property of equality with fractions		
6	Multiplicative property of equality with integers		
7	Multiplicative property of equality with signed fractions		
8	Using two steps to solve an equation with whole numbers		
9	Solving a two-step equation with integers		
10	Solving a two-step equation with signed fractions		

Applications of Linear Equations (No topics selected for this section)

Linear Inequalities and Applications (No topics selected for this section)

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Percents and Proportions (No topics selected for this section)

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Percents (No topics selected for this section)

Proportions and Rates (No topics selected for this section)