

Introducing ALEKS

What is ALEKS?

- Complete Curriculum Solution for Math with Access to Full Course Library
- No Textbook Required
- Artificial Intelligence Targets Gaps in Student Knowledge
- Assessment and Individualized Learning
- Master Account Includes Quizzing and Automated Reports to Monitor Learning Progress
- Unlimited Online Access - PC & Mac Compatible

ALEKS is available for a variety of [courses](#).

Student Account: Input Tools

Once a student account has been established, the student learns how to use the input tools by taking a brief, interactive tutorial. ALEKS provides a **free-response environment** that uses realistic input tools and avoids multiple-choice questions so students must demonstrate content mastery.



Assessment

After the student achieves a basic familiarity with the system and its tools, ALEKS administers a **personalized, adaptive assessment** that includes approximately 25 to 30 questions.

Question #10 Assessment Progress: 0/11

A pin is randomly dropped point down on the square board shown below. It is equally likely that the pin lands anywhere on the board (and not outside). Find the probability that the pin lands on the shaded circular region. Each side of the board is 4 in. Use the value 3.14 for π . Round your answer to the nearest hundredth.

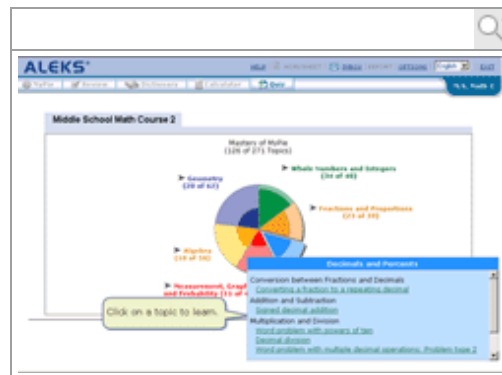
Clear Undo Help

Next >> I haven't learned this yet

Pie Chart

Following the initial assessment, the student receives her report in a color-keyed pie chart. **In the ALEKS Pie, each "slice" corresponds to a particular area of the course**, such as "decimals" or "fractions and proportions." The darker portion of each pie slice represents the topics that the student has mastered and the lighter portion represents what the student has yet to learn.

The ALEKS Pie describes the student's current knowledge of the subject and makes precise recommendations for further study. Each slice of the pie chart may be opened to produce a list of the concepts on which the student can choose to work, based upon prerequisite knowledge.



Learning Mode

By clicking on a topic suggested in the pie chart, the student makes an immediate transition into the **Learning Mode**. The Learning Mode provides practice problems and offers explanations of concepts and procedures. Once a student has demonstrated mastery in the Learning Mode, the item is added to the ALEKS Pie, and new topics may become available.

Customary unit conversion with mixed number values

Ivan bought 36 ounces of nuts at the store. How much is this in pounds?
Write your answer as a **whole number** or a **mixed number** in **simplest form**. Include the correct unit in your answer.

Read this explanation carefully.

Table 1 shows conversion facts for the customary system.

We use the following fact from the table.

$$1 \text{ lb} = 16 \text{ oz}$$

In 1 pound there are 16 ounces .
So we divide 36 ounces into groups of 16 .

$$\begin{aligned} 36 \text{ oz} &= (36 \div 16) \text{ lb} \\ &= \frac{36}{16} \text{ lb} \\ &= 2 \frac{4}{16} \text{ lb} \\ &= 2 \frac{1}{4} \text{ lb} \end{aligned}$$

So 36 ounces is equal to $2 \frac{1}{4}$ pounds .

The answer is $2 \frac{1}{4} \text{ lb}$.

Practice

	Unit	Symbol	Fact
Capacity	fluid ounce	fl oz	
	cup	c	1 c = 8 fl oz
	pint	pt	1 pt = 2 c
	quart	qt	1 qt = 2 pt
	gallon	gal	1 gal = 4 qt
Length	inch	in	
	foot	ft	1 ft = 12 in
	yard	yd	1 yd = 3 ft
Weight	ounce	oz	
	pound	lb	1 lb = 16 oz

Immediate Feedback

The student will receive immediate feedback in the Learning Mode and, in some cases, suggestions for correcting mistakes.

ALEKS[®] HELP WORKSHEET INDEX OPTIONS English EXIT

MyPie Review Dictionary Calculator Quiz M.S. Math 2

→ The unit in your answer is not a unit for an area.

Find the area of this parallelogram. Be sure to include the correct unit in your answer.

Try to answer again.

27ft 25ft
26ft

650 ft

Clear Undo Help

Next >> Explain

Review

At any time, students are able to review topics they have previously or recently mastered.

ALEKS[®] HELP WORKSHEET INDEX OPTIONS English EXIT

MyPie Review Dictionary Calculator Quiz M.S. Math 2

Here are some questions you may want to review if you don't want to review them right now, click on "Done".

Middle School Math Course 2

What you need to review

Fractions and Proportions	Signed Fractions and Exponents	today
	Exponents and order of operations	today
	Proportions	today
	Word problem on rates	today
Measurement, Graphs, and Probability	Measurement	today
	Measuring length to the nearest quarter or half inch	today
Geometry	Lines and Angles	today
	Supplementary and complementary angles	today
	Volumes and Surface Areas	today
	Volume of a solid made of unit cubes	today
	Vertices, edges, and faces of a solid	today

● this item is mastered ● this item is probably mastered

Worksheet

Students also have the ability to print out 16-question worksheets for additional practice or review. These worksheets are uniquely generated based on the student's current knowledge. The worksheet answer key is automatically sent to the Master Account via the ALEKS Message Center.

ALEKS[®] Worksheet

A A Student - Worksheet #1 - 04/24/2008 1:12 PM PDT
Middle School Math Course 2 / Guest (ALEKS)




1. Use a ruler to find the length of the stick.
Write your answer to the nearest $\frac{1}{2}$ inch.

4. A car travels 187 miles in 3 hours and 15 minutes. How many miles does it travel per hour?

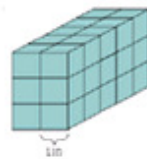
5. Evaluate.
 $-4 - 2^2 - (2 - (-1))^2$

2. The price of a gallon of unleaded gas has risen to \$2.85 today. Yesterday's price was \$2.73. Find the percentage increase. Round your answer to the nearest tenth of a percent.

3. Fill in the blank under each figure below.

		
number of faces: <input type="text"/>	number of faces: <input type="text"/>	number of faces: <input type="text"/>

6. The solid below is made from cubes. Find its volume.



7.

(a) An angle measures 27° . What is the measure of its complement?

(b) An angle measures 104° . What is the measure of its supplement?

8. Graph the line $6x + 5y - 11 = 0$.

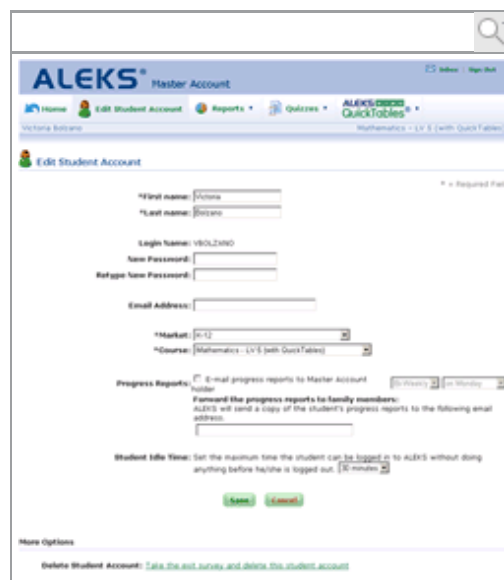
Master Account

Easily manage all student accounts, monitor student progress, view customized resources, and more from within your Master Account.



Edit Student Accounts

You can edit any student account, including personal information, grade, course, state standards correlation, or payment information.



Student Progress Report

You are able to view any student's progress and access the student's results from the different assessment sessions.

The screenshot shows the ALEKS Master Account interface for Stephanie Brown. It includes a navigation bar with links like 'Check/send messages', 'Add student account', 'Edit master account address', and 'Help'. Below this is a table listing the student's account details:

Student Account	Grade	Subject	Action
Stephanie Brown	10th Grade	Algebra 1	Progress, ALEKS Report, QuickTables Report, Request Assessment, Edit Student, Billing

The main section is titled 'Stephanie Brown Student Progress Report'. It displays login and enrollment information:

- Last login: 04/24/2008 From host: 216.32.149.158
- Enroll date: 03/10/2008 Hours/week: N/A
- Total Hours: 0.5

The subject is 'Algebra 1' and the class is '10th Grade / Brown, Stephanie (Brown)'. A table shows assessment performance and time to completion:

	Last assessment	Assessment performance goal	Time to completion (Current learning rate)			
			Hours per week	Items learned per hour of use	expedited hours necessary to reach the goal	expedited weeks necessary to reach the goal
Requested Assessment	04/24/2008	0-4 %	-	-	-	-
Skipped Initial Assessment	04/02/2008	0 %	-	-	-	-
Initial Assessment	03/10/2008	-	-	-	-	-

A legend explains the assessment status: Assessment (blue bar), progress in learning mode (green bar), still to learn (yellow bar), assessment not completed (grey bar), not assessed in this domain (white bar), and hide these assessments (link). A 'Request a New Assessment' button is located at the bottom right.

Request Assessments

From the Student Progress Report, you can also request a new student assessment.

The screenshot shows the 'Request a New Assessment' page in the ALEKS Master Account. It features a navigation bar with 'Home', 'Edit Student Account', 'Reports', 'Quizzes', and 'ALEKS REPORTS QuickTables'. A message box states: 'Please note: This student had an assessment on 04/06/2008. This new Requested Progress Assessment will begin immediately.' Below the message are two buttons: 'Request a New Assessment, Now' and 'Cancel'. A search bar at the bottom contains the text 'What is the difference between a Quiz and a Progress Assessment?'.

Detailed Progress Report

You can view a student's detailed progress report to determine what topics the student knows, doesn't know, and is ready to learn next. You can also view the student's learning progress history, as well as a learning log of suggested review topics.

The screenshot shows the 'Student File Chart' in the ALEKS Master Account. It displays learning data for the student on 05/13/2009 (last login date). The total learning time is 35 hours and 33 minutes. A pie chart shows the distribution of learning across various topics:

- Algebra and Graphs (14 of 16)
- Course Matters (76 of 206 Topics)
- Whole Numbers (46 of 77)
- Geometry and Measurement (2 of 64)
- Fractions and Properties (1 of 55)

Fractions and Properties
(1 of 3)

Victoria's State Standards Report

Change state to: Victoria (v state)

What Victoria can do

Whole Numbers

- Number Sense, Addition, and Subtraction
 - Whole number place value, Problem type 2
 - Expanded form with zeros
 - Number comparison, Problem type 2
 - Word problem using addition or subtraction
- Multiplication and Division
 - Multiplication with trailing zeros, Problem type 1
 - Using addition and multiplication to count the objects on a grid
 - Division without carry
 - Dividend and remainder, Problem type 1
 - Using word problem using multiplication or division
- Rounding, Ordering, and Estimation
 - Containing a whole numerical expression with a number
 - Rounding, Problem type 2

Algebra and Graphs

Data and Graphs

- Bar graphs for non-numerical data
- Line graphs
- Interpreting pictograph tables

Probability

- Classifying likelihood
- Tree diagrams with two sets

Ratios and Signed Numbers

- Adding integers on a number line

Variables, Expressions and Equations

- Evaluating a simple algebraic expression, Problem type 2
- Solving simple equations with multiplication or division

Functions and Graphs

- Choosing data subsets
- Plotting a point in quadrant I

and many other more elementary concepts.

What Victoria is ready to learn next

Whole Numbers

- Number Sense, Addition, and Subtraction
 - Subtraction with multiple regrouping steps
- Multiplication and Division
 - Multiplication with trailing zeros, Problem type 2
 - Division with carry
 - Word problems on dividend and remainder
 - Word problem with multiple operations
 - Properties of Arithmetic, Fact Families, and Sequences
 - Fact families for multiplication and division

Fractions and Properties

- Equivalent Fractions
 - Understanding equivalent fractions
 - Equivalent fractions
- Ordering and Plotting Fractions
 - Ordering fractions with same numerator
- Multiplication and Division of Fractions
 - Introduction to fraction multiplication

Decimals and Percents

- Addition and Subtraction of Decimals
 - Adding with money
 - Decimal addition

Geometry and Measurement

- Angles and Lines
 - Measuring an angle with the protractor
 - Introduction to parallel and perpendicular lines
- Polygons and Circles
 - Naming polygons
 - Perimeter of a polygon
 - Circumference and area on a grid
- Volumes and Surface Areas
 - Classifying solids
 - Units of solids
- Similarity, Congruence, and Transformations
 - Introduction to congruence

History

Assessment type / Action	Date	Assessment performance goal	Hours per week	Hours learned per hour of use	Expected hours necessary to reach the goal	Expected weeks necessary to reach the goal
Progress Assessment	05/03/2010	32 of 41%	1.7	0.4	117.2	16.2
Progress Assessment	05/04/2010	37 of 41%	11.1	0.9	124.7	10.9
Initial Assessment	05/04/2010	7 of 41%	0.4	0.9	124.7	25.5

Learning log

No new topics have been learned since last assessment.

Note: as a guest, changes you make will not be saved.

Attendance Report

You can track student time spent in ALEKS per day, the topics attempted during that time, and the topics mastered and added to the ALEKS Pie.

ALEKS® Master Account

Home | Edit Student Account | Reports | Quizzes | ALEKS® QUICKTOBES®

Victoria, Australia | Mathematics - V1.1 (with Quick Tables)

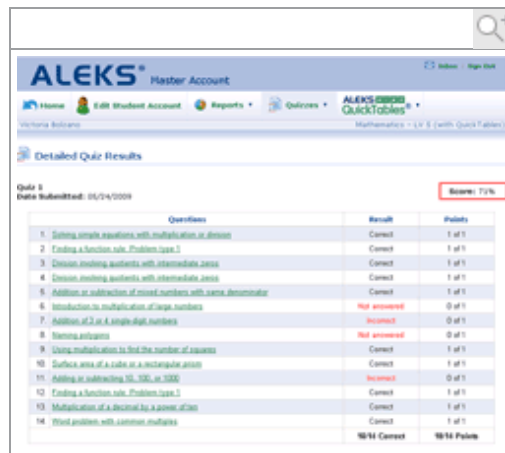
Student Attendance Report

Attendance Report from 4/29/09 to 5/13/09 (Open Table)

Date	Time Spent in ALEKS	Topics Attempted	Topics Mastered
5/13/09	2 hours 5 minutes	6 Topics	5 Topics
5/12/09	2 hours 16 minutes	12 Topics	6 Topics
5/11/09	2 hours 30 minutes	7 Topics	6 Topics
5/10/09	3 hours 6 minutes	6 Topics	5 Topics
5/09/09	1 hour 27 minutes	10 Topics	3 Topics
5/08/09	2 hours 15 minutes	2 Topics	2 Topics
5/07/09	1 hour 45 minutes	2 Topics	2 Topics
5/06/09	1 hour 20 minutes	2 Topics	2 Topics
5/05/09	2 hours 24 minutes	8 Topics	2 Topics
5/04/09	2 hours 20 minutes	5 Topics	5 Topics
5/03/09	1 hour 18 minutes	2 Topics	2 Topics
5/02/09	1 hour 30 minutes	10 Topics	2 Topics
5/01/09	36 minutes	1 Topic	1 Topic
4/30/09	1 hour	2 Topics	2 Topics
4/29/09	29 minutes	1 Topic	1 Topic
Total for this period	27 hours 33 minutes	76 Topics	43 Topics

Create a Quiz

Create a quiz for your student based on the ALEKS Pie slices or your state standards. Quizzes are automatically graded and the results are immediately available to both the parent and student.



The screenshot shows the ALEKS Master Account interface. At the top, there is a navigation bar with 'Home', 'Edit Student Account', 'Reports', 'Quizzes', and 'ALEKS QUICKTIPS'. Below this, the 'Detailed Quiz Results' section is displayed. The quiz is titled 'Quiz 8' and was submitted on 05/24/2009. The score is 7/14, which is 50%. The results are shown in a table with columns for 'Question', 'Result', and 'Points'.

Question	Result	Points
1. Solving simple equations with multiplication or division	Correct	1 of 1
2. Finding a function rule, Problem type 1	Correct	1 of 1
3. Dividing unlike fractions with intermediate steps	Correct	1 of 1
4. Dividing unlike fractions with intermediate steps	Correct	1 of 1
5. Addition or subtraction of mixed numbers with same denominator	Correct	1 of 1
6. Introduction to multiplication of large numbers	Not answered	0 of 1
7. Addition of 2 or 4 single-digit numbers	Incorrect	0 of 1
8. Rounding decimals	Not answered	0 of 1
9. Using multiplication to find the number of squares	Correct	1 of 1
10. Surface area of a cube or a rectangular prism	Correct	1 of 1
11. Adding or subtracting 10, 100, or 1000	Incorrect	0 of 1
12. Finding a function rule, Problem type 1	Correct	1 of 1
13. Multiplication of a decimal by a power of ten	Correct	1 of 1
14. Word problem with common multiples	Correct	1 of 1
7/14 Correct		7/14 Points

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