



MathMedia Algebra Basics (Pre-Algebra)

Algebra Basics provides the foundation and prerequisite requirements necessary for Algebra. This course is designed for students who are preparing for a high school Algebra course.

Learning Sections

Each section contains instructions, examples, and practice problems with hints and complete step-by-step solutions. Different techniques and perspectives are used to explain complex concepts to accommodate different learning styles.

Introduction Screen

INTRODUCTION

SUBTRACTING SIGNED NUMBERS

Thinking about the change in temperature is one of the best ways to understand subtraction of signed numbers... particularly, when the temperature changes are BELOW zero.

-3 If the temperature is -2 and it goes DOWN 3 degrees, you would write $-2 - 3$. Start at -2 and move DOWN 3 units. You end up at -5. Therefore, $-2 - 3 = -5$

MENU Previous Next Question

Interactive Practice Screen

Practice with on-demand step-by-step help and immediate feedback.

Signed Numbers QUESTION 2

(a) $8 - 10 + 1 =$ OK HINT

(b) $-(-2 - 1) =$ OK HINT

(c) $-1 - 1 - (-1) =$ OK HINT

(d) $6 - (-10) =$ OK HINT

MENU Previous Multiplying Signed Numbers

Learning Management System (LMS)

Scores from the Quizzes and Tests are automatically posted to the included database (LMS.csv) located in the program folder.

LMS - Microsoft Excel						
	A	B	C	D	E	F
1	Learning Management System					
2	Algebra Basics					
3						
4						
5	Topic	Date	Time	Class Code	LAST Name	FIRST Name
6	Algbisc-Q1-Signed Numbers	11/10/2011	10:11:46 AM	Period 1	Thomas	Susan
7	Algbisc-Q2-Order of Operations	11/10/2011	10:11:58 AM	Period 1	Thomas	Susan
8	Algbisc-Q3-Variables	11/14/2011	10:12:06 AM	Period 1	Thomas	Susan
9	Algbisc-Q4-Properties	11/14/2011	10:12:15 AM	Period 1	Thomas	Susan
10	Algbisc-Q5-Expressions	11/14/2011	10:12:25 AM	Period 1	Thomas	Susan
11	Algbisc-Q6-Equations	11/14/2011	10:12:33 AM	Period 1	Thomas	Susan
12	Algbisc-Q7-Exponents	11/20/2011	10:12:42 AM	Period 1	Thomas	Susan
13	Algbisc-Q8-Square Roots	11/29/2011	10:12:51 AM	Period 1	Thomas	Susan
14	Test A	12/13/2011	6:01:00 PM	Period 1	Thomas	Susan
15	Test B	12/14/2011	9:02:44 AM	Period 1	Thomas	Susan
16						

Main Menu

ALGEBRA BASICS MENU

Click on your choice or start at the beginning.

These are the topics which are most helpful for you to be successful in your first year of Algebra.

Click here to learn about Real Numbers.

Quiz MENU

Exit

Signed Numbers

Order of Operations

Variables

Properties

Expressions

Equations

Exponents

Square Roots

TEST A

TEST B

Have paper and pencil ready to write down and work out the problems in this program.

Extra Topics

Sets

Probability

Charts / Graphs

Challenge Questions

Quiz Question

Click in each box. Enter your answer.

Quiz #8: Square Roots Q1

Simplify each radical expression.

$\sqrt{1} =$ $\sqrt{9} =$ $\sqrt{81} =$

$\sqrt{64} =$ $\sqrt{49} =$ $\sqrt{25} =$

$\sqrt{36} =$ $\sqrt{16} =$ $\sqrt{100} =$

$\sqrt{4} =$ $\sqrt{144} =$ $\sqrt{121} =$

MENU Next

Quiz Score Report

Quiz #8: Square Roots

12/14/2011 Susan Thomas

Click here to score this Quiz

19 correct 90 %

21 wrong

Back Return to MENU

Assessments

Every section has a corresponding Quiz to test the student's achievement. Scores are calculated and automatically sent to the included database. Use the Quizzes for placement or accountability. Once the students have proven proficiency on the quizzes, they will take the cumulative test. There are two cumulative tests which may be used for evaluation of strengths and weaknesses either before or after the student has completed the learning sections and quizzes.

Cumulative Test

Critical Thinking QUESTION 15

Pretend you are on Mars and there is a new algebraic operation written with the symbol \otimes . You are told that the definition of this operation is:

$a \otimes b = a^2 + 3ab - b^2$

and you must find the value of

$3 \otimes 4$

$3 \otimes 4 =$

Previous SCORE THIS TEST The end...

Score Report

Date: 12/14/2011 Student Name: Susan Thomas

Score report for Algebra Basics (TEST A)

Q1(a)	Q4(a)	Q7(a)	Q1
Q1(b)	Q4(b)	Q7(b)	Q12(a)
Q1(c)	Q4(c)	Q8(a)	Q12(b)
Q1(d)	Q4(d)	Q8(b)	Q12(c)
			Q12(d)
Q2(a)	Q5(a)	Q9(a)	Q13(a)
Q2(b)	Q5(b)	Q9(b)	Q13(b)
Q2(c)	Q5(c)	Q9(c)	Q13(c)
Q2(d)	Q5(d)	Q9(d)	Q13(d)
Q3(a)	Q6(a)	Q10(a)	Q14
Q3(b)	Q6(b)	Q10(b)	Q15
Q3(c)	Q6(c)	Q10(c)	
Q3(d)	Q6(d)	Q10(d)	

Analyze the questions you missed. For success in high school algebra, you must be proficient in all this material.

Score: 37 / 45

82 %

MENU Evaluate weak areas

Evaluate Strengths and Weaknesses

Sections needing more practice are marked with an X.

Evaluation for Susan Thomas Date: 12/14/2011

ALGEBRA BASICS

Need more practice:

X Signed Numbers

X Order of Operations

Variables

Properties

Expressions

Equations

Exponents

Square Roots

PRINT

An "X" marks the topics which require more practice. Print this page. Then, go to the body of the "Algebra Basics" program and practice these topics.

MENU Score Report Challenge Questions