



Math for College Readiness: Summer Home Learning

1. Go to the IXL app or the website www.IXL.com/signin/pacespartans
 2. Enter your username and password.
 - **Each student's USERNAME** is their @pacespartans email, WITHOUT ".com" at the end. For example, **jdoue15123@pacespartans.com** would just use **jdoue15123@pacespartans** to login.
 - **Each student's PASSWORD** is their date of birth, just the month and day, with no dashes. For example, a student born on **February 4** would have the password **0204**
 1. Click on **MATH** at the top of the page and navigate to **EIGHTH GRADE**, **SEVENTH GRADE** or **ALGEBRA 1**.
 2. Complete each skill listed below with a SmartScore of **80 or above**.
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The following sections are **MANDATORY** and will count as your first quiz grade:

EIGHTH GRADE

Exponents and Roots

- F.1 – Understanding Exponents
- F.2 – Evaluate Exponents
- F.4 – Exponents with Negative Bases

Operations with Integers

- C.1 – Integer Addition and Subtraction Rules
- C.3 – Add and subtract integers
- C.4 – Add and subtract three or more integers
- C.6 – Integer multiplication and division rules
- C.7 – Multiply and divide integers

Expressions and properties

- V.4 – Evaluate one-variable expressions
- V.5 – Evaluate multi-variable expressions
- V.9 – Identify terms and coefficients
- V.14 – Add and subtract like terms

ALGEBRA 1

Operations

- B.1 – Add, Subtract, Multiply, and Divide Integers
- B.3 – Evaluate Variable Expressions involving Integers

Solve Equations

- J.3 – Solve One-Step Linear Equations
- J.4 – Solve Two-Step Linear Equations

The following sections are **RECOMMENDED** skills to practice over the summer:

EIGHTH GRADE

Exponents and Roots

- F.4 – Exponents with Negative Bases
- F.8 – Multiplication with Exponents
- F.9 – Division with Exponents
- F.11 – Power Rule
- F.12 – Simplify Expressions involving Exponents
- F.13 – Square Roots of Perfect Squares
- F.16 – Relationship between Squares and Square Roots

ALGEBRA 1

Single Variable Inequalities

- K.1 – Graph Inequalities
- K.2 – Write Inequalities from Graphs
- K.4 – Solve One-Step Linear Inequalities: Addition and Subtraction
- K.5 – Solve One-Step Linear Inequalities: Multiplication and Division
- K.6 – Solve One-Step Linear Inequalities
- K.7 – Graph Solutions to One-Step Linear Inequalities
- K.8 – Solve Two-Step Linear Inequalities
- K.9 – Graph Solutions to Two-Step Linear Inequalities

Linear Functions

- S.3 – Find the Slope of Two Points
- S.4 – Slope-Intercept Form: Find Slope and y-intercept
- S.5 – Slope-Intercept Form: Graph an Equation
- S.7 – Slope-Intercept Form: Write an Equation
- S.8 – Linear Equations: Solve for y
- S.10 – Write Equations in Standard Form

Polynomials

- Z.1 – Polynomial Vocabulary
- Z.4 – Add and Subtract Polynomials