

## **Algebra 1 Summer Assignment (2026–2027)**

Students transitioning from Pre-Algebra to Algebra 1 must complete the following assignment prior to the first day of the 2026–27 school year.

### **Assignment Instructions**

1. Go to [www.ixl.com](http://www.ixl.com)
2. Log into your IXL account.
3. Click Learning → Math → 8th Grade.
4. Complete each assigned skill topic listed by your teacher.
5. Reach a SmartScore of 85 or higher on each topic.

### **Important**

- This assignment will count as a TEST GRADE.
- It is DUE ON THE FIRST DAY OF SCHOOL.
- No late or partial credit will be given.

# June

Students transitioning from Pre-Algebra to Algebra 1 will need to complete the following assignments prior to the first day of the 2026-27 school year. Your goal should be to reach a Smart Score of 85 or higher on each IXL topic. Go to IXL.com, log into your account, click "Learning", then "Math", and go to [Pre-Algebra/8<sup>th</sup> Grade](#). Complete the following skill topics. Please enter your grade and have a parent initial the block. This will be a TEST GRADE and DUE on the 1<sup>st</sup> Day of School.

# 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8 Solve multi-step equations M.16	9	10 Identify reflections, rotations, and translations R.1	11	12 Graph a horizontal or vertical line AA.12	13
14	15	16 Find the slope from two points Z.2	17	18 Evaluate powers with negative or zero exponents C.8	19 Practice Memory Card Pre Alg	20
21	22 Solve multi-step inequalities N.8	23	24 Is (x, y) a solution to the system of equations? GG.1	25	26 Compound events: find the number of outcomes JJ.6	27
28	29 Find the distance between two points O.4	30				

# July

Students transitioning from Pre-Algebra to Algebra 1 will need to complete the following assignments prior to the first day of the 2026-27 school year. Your goal should be to reach a Smart Score of 85 or higher on each IXL topic. Go to [IXL.com](https://www.ixl.com), log into your account, click "Learning", then "Math", and go to [Pre-Algebra/8<sup>th</sup> Grade](#). Complete the following skill topics. Please enter your grade and have a parent initial the block. This will be a TEST GRADE and DUE on the 1<sup>st</sup> Day of School.

# 2026

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 Graph a line from an equation in slope-intercept form. AA.4	3 Practice Memory Card Pre Alg	4
5	6 Find the slope from two points. ZAC	7	8 Add and subtract numbers written in scientific notation. HUR	9	10 Multiply numbers written scientific notation. YZU	11
12	13	14 Square roots of perfect squares. 9RS	15	16 Cube roots of positive and negative perfect cubes. J7K	17 Practice Memory Card Pre Alg	18
19	20 Solve proportions BNY	21	22 Compare percents to fractions and decimals. 22V	23	24 Solve multi-step equations. 55K	25
26	27	28 Reflections: graph the image. 74Z	29	30 Rotations graph the image. AC9	31 Practice Memory Card Pre Alg	

Name:

Date:

Period:

STUFF YOU MUST KNOW – 7<sup>th</sup> Grade Math & Prealgebra

<p><b>Memory Exponents:</b></p> <p><math>1^2 =</math>      <math>2^2 =</math>      <math>3^2 =</math></p> <p><math>4^2 =</math>      <math>5^2 =</math>      <math>6^2 =</math></p> <p><math>7^2 =</math>      <math>8^2 =</math>      <math>9^2 =</math></p> <p><math>10^2 =</math>      <math>11^2 =</math>      <math>12^2 =</math></p> <p><math>13^2 =</math>      <math>14^2 =</math>      <math>15^2 =</math></p> <p><math>1^3 =</math>      <math>2^3 =</math>      <math>3^3 =</math></p> <p><math>4^3 =</math>      <math>5^3 =</math>      <math>6^3 =</math></p> <p>10 raised to a power:</p> <p><math>2^1 =</math>      <math>2^2 =</math>      <math>2^3 =</math></p> <p><math>2^4 =</math>      <math>2^5 =</math>      <math>2^6 =</math></p> <p><math>2^7 =</math>      <math>2^8 =</math>      <math>2^9 =</math></p> <p><math>2^{10} =</math></p> <p><b>Inequality Meanings:</b></p> <p>&lt;</p> <p>≤</p> <p>&gt;</p> <p>≥</p> <p>≈</p>	<p><b>Order of Operations:</b></p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p> <p><b>Greatest Common Factor:</b></p> <p><b>Least Common Multiple:</b></p> <p><b>Prime Numbers:</b></p> <p><b>Fraction Operations (Examples):</b></p> <p>Addition/Subtraction-</p> <p>Multiplication-</p> <p>Division-</p> <p><b>Mixed Number to Improper Fraction:</b></p> <p><math>n\% =</math></p> <p><math>\frac{is}{of} =</math></p>	<p><b>Properties:</b></p> <p>Commutative-</p> <p>Addition:</p> <p>Multiplication:</p> <p>Associative-</p> <p>Addition:</p> <p>Multiplication:</p> <p>Distributive-</p> <p><b>Customary Units:</b></p> <p>8 oz =</p> <p>2 c =</p> <p>2 pts =</p> <p>4 qts =</p> <p>12 in =</p> <p>3 ft =</p> <p>5280 ft =</p> <p>1 lb =</p> <p>1 min =</p> <p>1 hr =</p> <p><b>Metric Units:</b></p> <p>kilo</p> <p>hecto</p> <p>deca</p> <p>UNIT</p> <p>deci</p> <p>centi</p> <p>milli</p>
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**Integer Operations:**

Addition/Subtraction:

Pos + Pos =

Neg + Neg =

Pos + Neg =

Neg + Pos =

-<sup>-</sup> is the same as:+<sup>-</sup> is the same as:

Multiplication/Division:

Pos x Pos =

Neg x Neg =

Neg x Pos =

Pos x Neg =

Pos ÷ Pos =

Neg ÷ Neg =

Pos ÷ Neg =

Neg ÷ Pos =

**Division by Zero:**

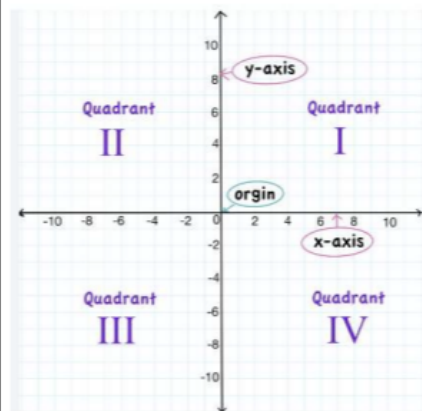
$\frac{0}{\#} =$

$\frac{0}{0} =$

$\frac{\#}{0} =$

**Simple Interest:****Absolute Value:**

$|a| \geq 0$  Examples:

**Parts of Coordinate Plane:****Fraction/Decimal/Percent Conversions:**

Fraction	Decimal	Percent
	0.9	
	$0.\bar{3}$	
$\frac{2}{10} = \frac{1}{5}$		75%
	0.4	
$\frac{1}{10}$		60%
	0.8	
$\frac{1}{4}$		30%
$\frac{5}{10} = \frac{1}{2}$		
	0.7	
$\frac{2}{3}$		100%

**Formulas:**

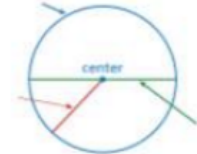
Area of Triangle:

Area of Parallelogram:

Area of Trapezoid:

Circle:

Parts:



Sum of angle measures:

Circumference:

Area:

Cylinder:

Surface Area:

Volume:

**Negatives with exponents:**

$(-5)^2 =$

$-5^2 =$

**Measures of Central Tendency:**

Mean-

Median-

Mode-

Range-