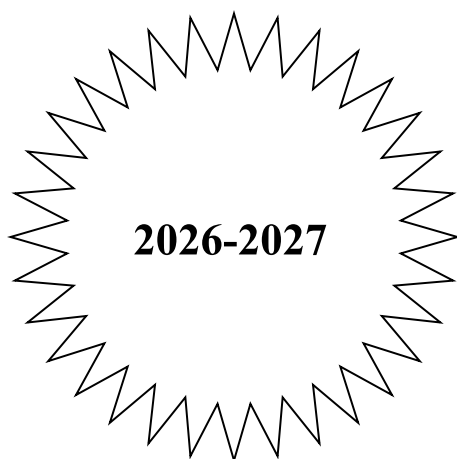


**ROY W. BROWN MIDDLE SCHOOL
BERGENFIELD, NJ**

Pre Algebra 6

Summer Packet



Name: _____

Bergenfield Public Schools

Roy W. Brown Middle School
130 S. Washington Avenue
201-387-3850

June 2026

Dear Parents and Guardians,

Due to your student's hard work and strong mathematical understanding they have been scheduled to take Pre Algebra as a 6th grader. This Advanced Placement program has been designed with them in mind. We hope to challenge them to think critically and to apply all the skills they have acquired from grades K-5.

Attached are the summer curriculum review materials for Pre Algebra 6. This booklet was prepared by the Roy W. Brown Middle School Math Department and contains topics that reflect content learned in prerequisite courses. These materials must be completed and brought to class on the first day of school in September.

Your student is required to complete this booklet over the summer. Students will not be permitted to use calculators for these topics during the school year. Therefore, this packet should be completed without the use of a calculator.

Thank you for your cooperation. We wish you a wonderful and safe summer.

Sincerely,
Dominick Rotante
Principal

Steve Neff
Director of Mathematics

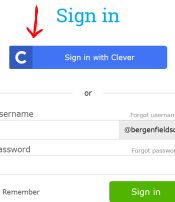
Roy W. Brown Middle School
Mathematics Department
Summer Course Work
For students entering
Pre Algebra 6

The first part of this packet contains skills to be completed on IXL. Please follow the directions below and utilize the helpful hints.

You can access IXL two ways:

1. Click on the name of the IXL skill in the list below. It is a link directly to the assignment.

- Click sign in with Clever.



2. Go to Clever

- Click on IXL 
- On the left side of the screen, select **sixth grade**.
- Scroll up/down to find the selected IXL activities that you must complete. They are listed below.
- Some letters may change without notice during the summer. Please verify the skill title or Skill ID.

Make sure that you see your name in the top right corner of the screen.

I. Activities

1. **GG.1** [Perimeter](#) Skill ID: SEM
2. **GG.2** [Area of rectangles and squares](#) Skill ID: BE9
3. **G.4** [Convert fractions to decimals](#) Skill ID: 62Y
4. **F.1** [Prime or composite](#) Skill ID: DFC
5. **G.1** [Write fractions in lowest terms](#) Skill ID: 5EW
6. **G.2** [Least common denominator](#) Skill ID: V5M

II. Helpful Hints

- a. Your “SmartScore” is a score that reflects various aspects of performance, including **number of problems completed**, **number of problems correct/incorrect**, and **problem difficulty**. In addition, recent answers are weighted more heavily and consistency (correct answers in a row) is rewarded highly. **A reasonable smart score is 80.**
- b. Please read explanations when an answer is wrong. This will help refresh your understanding of concepts, and hopefully help with the remaining problems. Some IXLs even have these two help options on the top.

[Learn with an example](#) 

or

[Watch a video](#) 

- c. Your SmartScore will automatically save. You can close the session and resume later.

The second part of the packet contains problems that are to be solved on paper. All pages MUST show the work in order for the work to be accepted. If more paper is needed, the work may go on a separate page.. If you require any help with the concepts, you can search the skill on www.khanacademy.org and watch a video on the topic.

Add, Subtract, and Multiply Decimals

$65.24 + 72.11 =$	$34.12 + 0.9 =$
<p>There is 24.5 ounces of chicken stock in a pot. A chef pours 13.21 ounces of water in the pot. How many ounces of liquid are now in the pot for the recipe?</p>	
$68.72 - 2.41 =$	$5.4 - 3.27 =$
<p>Jose had \$5.75 for lunch money. If he spent \$1.42 at snack time, how much money does he have left for lunch?</p>	

$195.2 \times 0.03 =$	$67.41 \times 4 =$
<p>Rapunzel's hair grows 1.23 feet each month. How long will her hair be after 15 months?</p>	

Division with Decimal Quotients

$4.305 \div 5 =$	$6.08 \div 4 =$
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Convert between fractions and decimals

Fraction	Decimal		Fraction	Decimal
$\frac{1}{2}$			$1\frac{3}{4}$	
	0.7			1.02
	0.65		$8\frac{4}{5}$	

Equivalent Fractions

Determine the equivalent fraction.

a. $\frac{10}{15} = \frac{?}{3}$

b. $\frac{3}{4} = \frac{21}{?}$

c. $\frac{?}{8} = \frac{35}{40}$

Multiply fractions and mixed numbers

$\frac{1}{6} \cdot \frac{2}{9}$	$8 \cdot \frac{3}{5}$
$3\frac{5}{7} \cdot 2\frac{3}{8}$	Larry has 6 hamsters. $\frac{2}{3}$ of them are brown. How many of Larry's hamsters are brown?

Add and subtract mixed numbers

$2\frac{1}{6} + 1\frac{1}{3}$	$4\frac{4}{5} - 2\frac{1}{2}$
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Freddy and Shranya went apple picking. Freddy picked $8\frac{1}{6}$ of a barrel of gala apples, and Shranya picked $14\frac{7}{8}$ of a barrel. How many more barrels did Shranya pick than Freddy?

Evaluate algebraic expressions

<p>For Items 4–6, evaluate each expression for $n = 7$.</p> <p>4. $n + 9$</p> <p>5. $(n - 3) \div 4$</p> <p>6. $\frac{35}{n}$</p>	<p>Write an expression to represent the product of 15 and y. Evaluate your expression when $y = 3$.</p>
<p>Find the value of the expression</p> $f - 7$ <p>for $f = 8\frac{1}{3}$.</p>	<p>Find the value of the expression</p> $w \cdot 1$ <p>for $w = 0.4$.</p>

Write an algebraic expression

Eleven more than a number	
A number decreased by 19	
Two more than a number squared	
A number divided by 6	
A number less 22	
Eight more than twice a number	
The product of a number and 26	
19 less than three times a number	