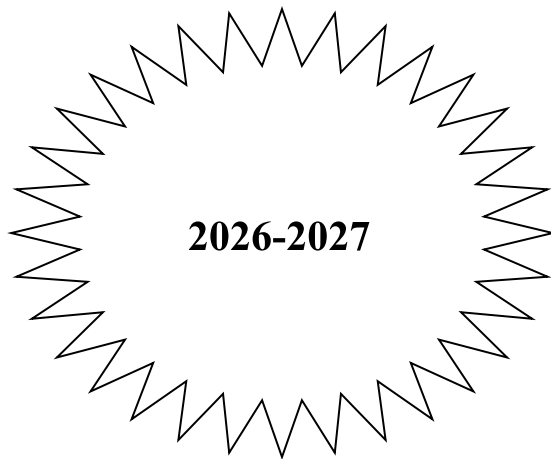


**ROY W. BROWN MIDDLE SCHOOL
BERGENFIELD, NJ**

Pre Algebra Grade 7 Summer Packet



Name: _____

Bergenfield Public Schools
Mathematics Department
80 South Prospect Avenue
Bergenfield, New Jersey
(201) 387-3850

June 2026

Dear Parents and Guardians:

Attached are the summer curriculum review materials for *Pre Algebra 7*. 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 child is required to complete this booklet over the summer. A test based on the material in the packet will be given to your child during the second week of school. It will count as the first test of the year and the grade will be determined as follows:

Completion of the packet on time will count 20% of the grade
Performance on the test will count 80% of the grade.

Students will not be permitted to use calculators on this exam. Therefore, this packet should be completed without the use of a calculator.

Thank you for your cooperation.

Sincerely,

Dominick Rotante
Principal

Steve Neff
Director of Mathematics/Science

Bergenfield High School

Mathematics Department

Summer Course Work

Pre-Algebra 7

Topics

1. Operation with Rational Numbers

- a. Adding and Subtracting Fractions and Decimals
- b. Multiplying and Dividing Fractions and Decimals
- c. Converting Rational Numbers to Decimals

2. Number System

- a. Order of Operations
- b. Ordering and comparing Integers
- c. Equations
- d. Inequalities

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. This booklet must be kept neat and in order and is to remain in your notebook as a reference guide. If you require any help with the concepts, you can search the skill on www.khanacademy.org and watch a video on the topic.

Pre-Algebra Grade 7

Evaluate each expression. Show all of your work to receive credit.

1. $0.34 + 495.5 + 99.008$	2. $87.6 - 53.909$ $87.6 - 53.909$
3. 1.08×2.014	4. $14.127 \div 5.1$ $14.127 \div 5.1$
5. <p>Daniel is buying a video game that costs \$52.99. The sales tax is found by multiplying the cost of the video game by 0.07. How much is the sales tax for the video game? What is the total cost, including tax?</p>	

Evaluate each expression. Show all of your work to receive credit.

6.

$$4\frac{1}{2} + 1\frac{2}{7} + 3\frac{1}{3}$$

7.

$$132\frac{1}{6} - 99\frac{5}{6}$$

8.

$$9\frac{2}{7} \cdot 2\frac{2}{13}$$

9.

$$21 \div 3\frac{1}{2}$$

10. Gary is $61\frac{1}{8}$ inches tall. His friends Gino and Gilbert are $56\frac{1}{2}$ inches tall and $63\frac{1}{8}$ inches tall. What is the average height of the three friends?

11. A machine can make a box in $1\frac{3}{10}$ minutes. How many boxes can the machine make in 1 hour?

12. Express each fraction as a decimal. There is an example listed below to help. Show all your work to receive credit.

Express $6\frac{3}{8}$, the length in inches of the camel spider Sarai researched, as a decimal.

Step 1: Write the mixed number $6\frac{3}{8}$ as an improper fraction.

$$6\frac{3}{8} = 6 + \frac{3}{8} = \frac{48}{8} + \frac{3}{8} = \frac{51}{8}$$

Step 2: Divide the numerator by the denominator.

$$\begin{array}{r} 6.375 \\ 8 \overline{)51.000} \\ \underline{-48} \\ 30 \\ \underline{-24} \\ 60 \\ \underline{-56} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

The remainder is 0, so the decimal form of $6\frac{3}{8}$ is a *terminating decimal*.

Solution: The decimal form of $6\frac{3}{8}$ is 6.375.

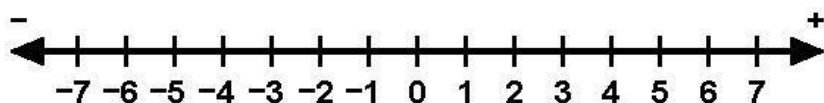
a. $7\frac{7}{8}$	b. $2\frac{1}{6}$
c. $5\frac{3}{4}$	d. $12\frac{5}{9}$

13. Use the order of operations to solve each expression. Show all of your work to get credit.

a. $(16 - 10)^2 \div 4$	b. $7^2 + (5 - 3)^3$
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14. Place the numbers on the number line.

-2.1, 5, 0, $-\frac{1}{2}$, -6.5, $7\frac{3}{4}$



15. Use the =, < or > symbols to complete the following statement.

a. -4.5 ____ -4

b. $\frac{1}{2}$ ____ $.5$

c. -8.3 ____ -8.75

d. -103 ____ -100

16. Solve each equation and check your solution.

a. $7.8s = 499.2$	Check work:
b. $10n = 420$	Check work:
c. $\frac{4}{5}y = 16$	Check work:
d. $\frac{x}{3.8} = 4$	Check work:

17. A car can travel 60 miles per hour.

- a. Create a table showing how far the car travels in 5 hours.

x	0	1	2	3	4	5
y						

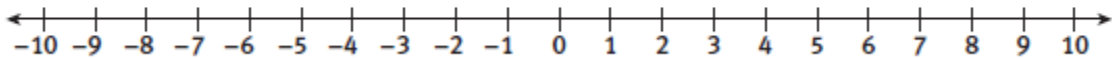
- b. Write an equation to determine the distance d that the car can travel in t hours.
- c. How long will it take the car to travel 540 miles? Explain your reasoning.
- d. How far will the car travel in 12 hours? Explain your reasoning.

18. Write inequalities for the following statements.

- a. The temperature was less than 20° F on the morning of the test.
- b. More than 40 students were in her flight school class.
- c. Training uniforms cost at least \$50.
- d. No more than 25 students in the class will get a job with the airline.

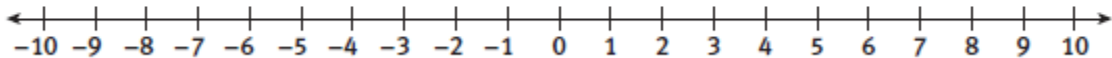
19. Graph the following inequalities.

Graph $x < 8.5$.



a.

Graph $\frac{3}{2} \leq x$.



b.