## Summer Assignment 2023 Incoming 7th Grade H

## Dear Student,

This summer assignment will prepare you for success in 7th Grade math. Please complete the following exercises this summer and be prepared to submit your work by Friday September 8 to your math teacher.

This packet will be counted as the first homework assignment of the year. In order to receive full credit, all work must be shown neatly in the space provided or attached to this packet on separate sheets of paper. NO CALCULATORS should be used when completing this packet. Answers written with no work shown (where needed) will receive no credit. You are encouraged to work in groups to help each other, however copying is unacceptable. This packet consists of 6th grade material, so it is expected that you are coming in to this course knowing this material. You will have a quiz during the first full week of school on the material in this packet.

If you have any questions, please reach out to your math teacher or jtalewsky@bbrook.k12.nj.us.

Sincerely,
The CMS Math Department

## Activity Instructions

Each problem on the following pages is worth either 1 point, 2 points, or 3 points as indicated at the top of the page. You may choose any problems you want on any page to complete for your summer work. At the end, you must have a total of 40 points worth of problems to get full credit for this packet.

1 Point problems will be the easiest 2 Point problems will be medium difficulty 3 Point problems will be harder difficulty

Fill out the information below as a way for you to track your progress.

| Problem <br> Number <br> Chosen | Point <br> Value | Answer |
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| Problem <br> Number <br> Chosen | Point <br> Value | Answer |
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## Need Help?

Check out the videos below if you need help on any of the topics in this packet.

## Adding/Subtracting Fractions

Adding and Subtracting Fractions with Unlike Denominators | Math with Mr. J

## Multiplying/Dividing Fractions <br> How to Multiply and Divide Mixed Numbers | Math with Mr. J <br> 

Adding/Subtracting Decimals
Adding and Subtracting Decimals (How to) | Math with Mr. J

## Multiplying/Dividing Decimals

A Quick Review of Multiplying and Dividing Decimals | Math with Mr. J


Integers/Rational Numbers on a Number Line Decimals and fractions on a number line | Decimals | Pre-Algebra | Khan Academy


Absolute Value
What is Absolute Value? | Absolute Value Examples | Math with Mr. J


Distance on the Coordinate Plane and Perimeter
Coordinate Grid: find area and perimeter

## Write and Evaluate Algebra Expressions

Writing an Algebraic Expression for a Real-World Situation

Writing Algebraic Expressions (Two Operations) | Math with Mr. J

## Simplify Algebra Expressions

An Intro to Combining Like Terms | Simplifying Expressions by Combining Like Terms | Math with Mr. J

## Adding/Subtracting Equations

Solving One-Step Equations with Decimals \& Fractions | Expressions \& Equations | Grade 7

## Multiplying/Dividing Equations

Solving One-Step Equations with Decimals | Expressions \& Equations | Grade 6

## Writing Equations

Writing Equations from Word Problems | MooMooMath and Science


## Area of Parallelograms and Triangles

Area of Parallelograms and Triangles | The Middle Cafe

## Surface Area/Volume

How to Find the Surface Area of a Triangular Prism | Math with Mr. J

## One Point Tasks

\begin{tabular}{|c|c|c|c|}
\hline \begin{tabular}{l}
1. \\
What is the value of
\[
1,242 \div 18 ?
\]
\end{tabular} \& \begin{tabular}{l}
2. \\
Find the quotient.
\[
\frac{5}{4} \div 1 \frac{1}{12}=
\]
\end{tabular} \& \begin{tabular}{l}
3. \\
What are the coordinates of a point in Quadrant II which is 5 units away from
point \(P\) ?
\(\square\)
\end{tabular} \& \begin{tabular}{l}
4. \\
Two cities had low temperatures for the day of 10 and 5 degrees below zero. as an integer.
\end{tabular} \\
\hline \begin{tabular}{l}
5. \\
Write these numbers in increasing order.
\[
\frac{6}{3},-\frac{3}{4}, 1.5,0.25,-\frac{5}{4}
\]
\end{tabular} \& \begin{tabular}{l}
6. \\
Check all the expressions that have a value of 13.5 when \(\mathrm{s}=1.5\).

<br>
$\frac{5}{5}+13 \frac{1}{5}$ <br>
$21 \div s$
$375 \div s)-236.5$
$6 s^{2}$
$5^{3}$

 \& 

7. <br>
Evaluate the expression below.

$$
(4.4+7.6) x-(24 \div 12) x
$$

 \& 

8. <br>
What is the value of $t$ in the following <br>
equation? <br>
$t+\frac{1}{4}=2 \frac{7}{12}$
\end{tabular} <br>

\hline | 9. |
| :--- |
| April pays a dog-walking service $\$ 30$ the table to show how many dollars, $d$, April spends on dog-walking in | \& | 10. |
| :--- |
| An animal shelter with only dogs and cats has a ratio of cats to doas that is $9: 7$ |
| What is the ratio of dogs to all animals? | \& | $11 .$ |
| :--- |
| What is $0.4 \%$ of 10 ? | \& | 12. |
| :--- |
| For each fraction, decimal, or percent, write the list below. $0.68, \frac{19}{50}, \frac{9}{20}, 80 \%, 0.54$ |
| $38 \% \quad \frac{27}{50}$ |
| $\frac{4}{5}$ |
| $\frac{17}{25}$ | <br>


\hline | 13. |
| :--- |
| Find the area of the figure below. | \& | 14. |
| :--- |
| What is the surface area of the triangular prism shown? | \& | $15 .$ |
| :--- |
| Evaluate $2 \ell+2 w$ for $\ell=5.2$ and | \& | 16. |
| :--- |
| Chad earned the following test scores: |
| $75,85,100,87,80,70,95,91$ |
| Would the mean, median, mode, or range show how much he improved overall? | <br>

\hline
\end{tabular}

## Two Point Tasks



## Three Point Tasks

| 33. | $34 .$ | 35. $\qquad$ Use $t$ for time and $d$ for distance. dentify the independent and and use them to writ represents his walk. |
| :---: | :---: | :---: |
|  | 37. <br> Two figures are arranged as the area shaded in light grey $\square$ | 38. $\qquad$ coordinates $(1,5)$, , $(3,6),(5,5)$, and $(3,0)$. Sketch Jake's kite, and calculate $\square$ |
| 39. | 40. <br> The same digits are used for the compare the values of the expression | 41. the width is 2 ft ? |
| 42. <br> Large balloons are sold in package of 4 friends gets an equal share of Write an expression to represent how much each friend must pay | 43. $\qquad$ number of lawns mowed and let $c$ be the expressions that could represent the total earned, $E$ in dollars, by Jase. <br>  |  |

Name:
Answer Sheet (Write problem number in the box)


Name:
Answer Sheet (Write problem number in the box)


Name:
Answer Sheet (Write problem number in the box)


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Answer Sheet (Write problem number in the box)


