Welcome Knights: 7^{TH} Grade Summer Math Packet 2023-2024

Directions:

- This packet if for all 7th grade students no matter what level you are in.
- To receive full credit, you must show all work if the problem requires steps.
- The use of a calculator is not permitted.
- When handed in, the packet should be stapled in page order with your name and period on the top.
- Please attach any scrap paper if used (be sure scrap paper is neat and has the page and question number next to each problem).
- Use summaries on top of each page as a quick reference for how to complete each page.
- The summer packet is due by September 4, 2023.

I. Summary: Rounding Decimals		
Step 1: Decide on the place the number is to be rounded to.		
Step 2: Look at the first digit to the right of that place.		
Step 3: If the digit is equal to or more than 5, round up.		
Step 4: If the digit is less than 5, round down.		
Step 5: We may drop the zeros.		
Example: Round to the nearest hundredth.	Example: Round to the nearest tenth.	
2.1 <u>4</u> 56 = 2.15	0. <u>4</u> 3 = 0.4	

Number	Rounded Place Value	Answer
1. 2.467	tenths	
2. 0.9857	hundredths	
3. 14.832	hundredths	
4. 256.93	tenths	
5. 0.000756	thousandths	

Name_



Write each fraction as a decimal using any method. Do NOT use a calculator!





Simplify each expression by adding or subtracting the fractions. Answer must be in simplest form (can be left as an improper fraction) Do NOT use a calculator!



IV. Summary: Multiplying Fractions

<u>Step 1</u>: Change to improper fractions, *if necessary*.

<u>Step 2</u>: Fractions are multiplied across: Numerators multiplied to numerator. Denominator multiplied to denominator.

Step 3: Answer must be written in simplest form, must reduce! You do not need to change an improper fraction to a mixed number.

Simplify each expression by multiplying fractions. Answer must be in simplest form (can be left as an improper fraction). Do NOT use a calculator!



V. Summary: Dividing Fractions

Step 1: Change to improper fractions, if necessary.

Step 2: K-C-F (Keep-Change-Flip).

Keep the first fraction. Change division to multiplication. Flip the second fraction (reciprocal)

Step 3: Fractions are multiplied across: Numerators multiplied to numerator. Denominator multiplied to denominator.

Step 4: Answer must be written in simplest form, must reduce! You do not need to change an improper fraction to a mixed number.

Simplify each expression by dividing fractions. Answer must be in simplest form (can be left as an improper fraction) Do NOT use a calculator!

$\frac{7}{8} \div \frac{1}{4} =$	$\frac{2}{3} \div \frac{3}{5} =$