

Summer Math Work

Dear Students,

It is very important to keep your math skills sharp over the summer months. Believe me, I know how important a brain break is and I really want you to enjoy your summer! I have planned this summer packet to be a short and approachable refresher that will ensure you are ready for math class when you return in the fall.

I suggest that you create a routine for yourself to make this packet very simple to complete before school starts. Each day, after breakfast, do one problem—that's it, just one! Keep that up each Monday through Friday over summer and you will be done when you get back to school!

If you like, you could set one day a week to complete five problems. Again, that would keep you on track to complete the packet before you return to school.

You are welcome to turn the math packet in at Meet the Teacher Day, on the first day of school, or by Wednesday, September 4. The packet is due no later than Wednesday, September 4. This will count as a quiz grade.

I have included some online resources to help you if you get stuck, as well as a checklist of math skills that you need to know for next year's class. Above all, make sure your multiplication facts are memorized! 😊

Have a wonderful summer and know that I will be very excited to see you next school year!

In Christ,
Mrs. Federmeier

Are You Ready for 6th Grade Math?

- ☐ I can use mental math strategies to add and subtract 2-digit numbers.
- ☐ I know my times tables.
- ☐ I can multiply multi-digit numbers.
- ☐ I can do long division.
- ☐ I can add, subtract, and multiply decimals.
- ☐ I understand the meaning of a fraction; I can compare fractions, change improper fractions to mixed numbers, and reduce fractions.
- ☐ I can add and subtract fractions with unlike denominators.
- ☐ I can multiply fractions and mixed numbers.
- ☐ I can find multiples and factors of numbers.
- ☐ I understand place value, including decimals.
- ☐ I know how to use a ruler to measure.
- ☐ I can round and estimate solutions.

Do Need Math Help at Home?

There are a variety of online resources to turn to for math help.

Here are some favorites:

Khan Academy—khanacademy.org

Cliffs Notes—cliffsnotes.com

Art of Problem Solving—artofproblemsolving.com

Math with Mr. J— www.youtube.com/@MathwithMrJ

Also recommended for extended help and practice are paid subscriptions:

IXL—<https://www.ixl.com/>

First in Math—firstinmath.com



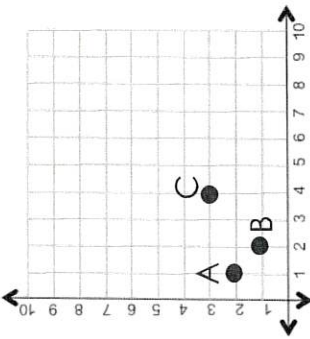
Incoming 6th Grade Summer Math Calendar



Week One

Problem	Work & Answer
List the factors of each number. a.) 24 b.) 64	
Fill in the missing number. a.) $0.24 - .128 = ?$ b.) $94.19 + 2.6 + \underline{\quad} = 161.29$	
Compare using $<$, $>$, or $=$ a.) $0.245 \bigcirc 0.0245$ b.) $24.500 \bigcirc 24.5$ c.) $20.405 \bigcirc 20.45$	
Write the following in expanded form: a.) 0.234 b.) 14.78	
Divide: a.) $2,936 \div 4$ b.) $14,783 \div 12$	

Week Two

Problem	Work & Answer
List the next four terms in the sequences with the given rule: a.) Start at 0, add three b.) Start at 0, add six c.) What is the relationship between the two sequences? Multiply: a.) 23.5×6 b.) 2.35×0.6 c.) 235.0×0.06	
Name each ordered pair. 	
Find each sum: a.) $\frac{1}{2} + \frac{1}{4}$ b.) $\frac{1}{4} + \frac{1}{3} + 3\frac{7}{12}$	
Round each number to the nearest tenth: a.) 985.76 b.) 43.52 c.) 0.859	

Week Three

Problem	Work & Answer
Use the order of operations to simplify each expression: a.) $(6 \times 3) + 72 \div 8 - 5 + 1$ b.) $3 \times \{[(65 - 49) + (42 \div 7)] \div 2\}$	
Order the following from least to greatest: 0.25, 2.205, 0.502, 0.225, 2.025	
Find the product of each of the following: a.) $2.85 \bullet 29$ b.) $\\$1.55 \bullet 13$ c.) $1.2 \bullet 2.1$	
If you bought 3 CD's each costing \$12.99, and paid with a \$50 bill. What would your change be?	
Order the fractions from least to greatest $\frac{1}{2}, \frac{2}{3}, \frac{1}{4}, \frac{2}{5}$	



Week Five

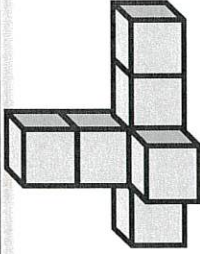


Problem	Work & Answer
Use a model to show $3\frac{1}{4} \cdot \frac{1}{2}$	
a.) $\frac{5}{12} - \frac{1}{12}$ b.) $6 - \frac{3}{5}$	
Draw a triangle that is neither equilateral or isosceles.	
Estimate first and then solve. a.) $94.71 - 62.3$ b.) $24.56 + 11.94$	
If you tripled the number of sides of a pentagon, how many sides would the new figure have?	



Week Six



Problem	Work & Answer
$\begin{array}{l} \text{a.) } \frac{4}{7} \cdot \frac{3}{8} \\ \text{b.) } 2\frac{1}{5} \cdot \frac{10}{12} \end{array}$	
Write the following expressions: a.) Multiply twelve and four, then add forty-seven. b.) Add thirty-five to the product of eight and six.	
An apple pie was cut into one eighth pieces. If Michael's family ate one fourth of the total pie, how slices were left? (Hint: Draw a picture)	
Solve the following: a.) 6.543×10^2 b.) 6.543×10^3 c.) Describe the pattern you see.	
Measure the volume by counting the unit cubes. 	

Week Seven

Problem	Work & Answer
A board 8ft. 4in. long is cut into four pieces of equal length. How long is each piece?	
Write the following in standard number form: a.) Three and thirty-eight hundredths b.) Sixty-five and seven hundredths	
Find the unknown a.) $1\frac{2}{7} - ? = \frac{6}{7}$ b.) $\frac{1}{2} + ? = \frac{11}{12}$	
Sam and Sally were knitting scarves for a winter clothing drive. Sam had completed $6\frac{3}{5}$ scarves while Sally had finished $8\frac{1}{4}$ scarves. How many more scarves did Sally complete?	
Write the following in word form: a.) 17.80 b.) 2.16	



Week Eight



Problem	Work & Answer
Find the space inside the refrigerator that is six feet tall, three feet wide and four feet deep.	
Place grouping symbols to make the equations below true. a.) $9 \times 34 + 8 \div 6 = 63$ b.) $13 + 12 - 7 \div 3 \times 5 = 30$	
Compare using $<$, $>$, or $=$ $3,164 \times 6$ $2,839 \times 7$	
a.) $5\frac{5}{6} - 3\frac{1}{4}$ b.) $6\frac{2}{3} + 2\frac{1}{5}$	
Compare using $<$, $>$ or $=$: a.) 0.240 0.42 b.) 5.6 5.39	

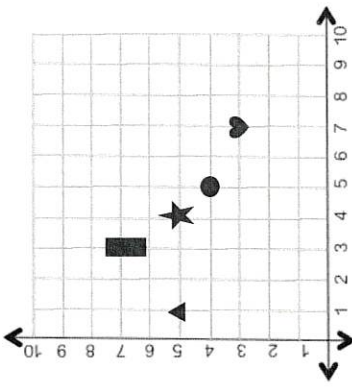
Week Nine

Problem	Work & Answer								
a.) 54×22 b.) 67×33									
A cookie recipe calls for $2\frac{1}{3}$ cups of flour. If you want to double the recipe, how much flour will you need?									
The chart shows the drop in temperature as the evening approaches. If the pattern continues, what temperature will it be at 8:00pm? <table><tr><td>Time</td><td>3:00pm</td><td>4:00pm</td><td>5:00pm</td></tr><tr><td>Temperature</td><td>38°F</td><td>34°F</td><td>30°F</td></tr></table>	Time	3:00pm	4:00pm	5:00pm	Temperature	38°F	34°F	30°F	
Time	3:00pm	4:00pm	5:00pm						
Temperature	38°F	34°F	30°F						
Add. Write your answer in simplest form. $\frac{2}{3} + \frac{1}{4} + \frac{5}{6}$									
Round each number to the nearest thousandth place. a.) 572.6824 b.) 375.9375									



Week Ten



Problem	Work & Answer
Write each number below in standard form. a.) $(3 \times 1) + (2 \times \frac{1}{10}) + (8 \times \frac{1}{100})$ b.) $(4 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000})$	
a.) How many yards are in 6 miles. b.) How many inches are in 4 yards.	
Name each shape located at the given points. a.) (1,5) b.) (3,7) c.) (5,4)	
Order the following numbers from least to greatest. 1.781, 0.788, 1.807, 0.87, 0.807	
Circle the expression that is equivalent to the following, then solve the correct expression. $\frac{1}{4}$ of $\frac{2}{5}$	a.) $\frac{2}{5} \div 4$ b.) $\frac{1}{4} \times \frac{2}{5}$ c.) $\frac{1}{4} + \frac{2}{5}$

