

Rising 6th Grade Math - Summer Assignments 2023

Hi Rising 6th Graders, Parents, and Guardians,

Welcome to Math 6! I look forward to working with all of you when school begins in August!

While the summer break is a good time to take a much-needed rest from academic work, it is also important to continue to practice some basic mathematical skills because of the cumulative nature of math and so that you do not lose any of the useful problem-solving and sense-making skills you have been developing in your math education.

There are two summer math assignments:

- 1) Summer Math Packet (attached)
- 2) Math Autobiography

The summer math packet consists of the exercises that require you to show your mathematical calculations. The questions are broken down into chunks to complete each month for pacing purposes. When completing this packet, **complete it using pencil and remember to show all your work!**

I expect you to complete all the questions to the best of your ability without using a calculator. You will turn in your completed packet on the first day of school.

The math autobiography is a presentation of you as a math learner. The autobiography will give you a chance to reflect on your experiences with math. The autobiography will also help me in knowing how you feel about math and what you have experienced in math classes throughout elementary school. I wrote my own for you all to read to get to know me and as an example for you. Your autobiography should be at least one full page, 12-point Times New Roman font, double spaced. Consider the following questions/sentence stems when writing your autobiography:

- Do you like math? Why or why not?
- What sort of math student do you think you are? Why?
- What math subjects do you like learning about and why do you like them?
- What math subjects do you dislike and why?
- What are your interests and hobbies?
- What are you excited/nervous about for middle school?
- My favorite/least favorite memory of math is...
- I learn best in math when...
- Something I would really like for you to know about me is...

You will turn in your completed autobiography on the first day of school and we will complete a portfolio assignment with it within the first week!

I hope you and your family have a great summer break! I look forward to welcoming you to middle school in August.

Best,

Ms. Harding-Scudder (lharding-scudder@stmschool.net)

Ms. Harding-Scudder's Math Autobiography

My love of puzzles and math first started when I was little. I loved numbers and the way things worked. Some of my favorite memories were playing games in math class although we didn't do that very often. I remember playing "Around the World" in the third grade and having a love hate relationship with it. I liked it when I could beat my classmates but also hated how much it put my friends and I on the spot. In my earlier elementary years, I remember having one "Game Day" in math class and being really confused on how this helped us get better at math. But now as a teacher, I think games are a huge part of learning and I try to incorporate them into lessons and review as much as possible.

Math was my favorite subject for years. I loved going to class, writing notes, and practicing in my free time. My friends thought I was crazy to dedicate that much time to math but I really loved it. When math started getting hard, my feelings began to change. I didn't like that I was getting things wrong and I didn't understand why. My teacher at the time told us the concept of the productive struggle. I thought she was nuts because I didn't like to struggle and if you are struggling then how is that productive? She would tell us that if we were struggling then we were building resilience and with math you need resilience. Before her class, I probably had the resilience of an ant. But after a year in her class and continuing to have a productive struggle, I felt like I had conquered the biggest mountain and on top of that - I learned a bunch of math.

Besides math, I also am an avid hiking enthusiast, traveler, concert go-er, and cat lover. My cat, Kitty Baby, is one of my favorite living creatures and I wish I could take him hiking with me but I am pretty sure he would hate it. I also am a HUGE Swiftie (aka Taylor Swift fan)! I have especially loved trying to crack her secret codes and cryptic messages with numbers. Recently, I thought that she might be releasing a book because her favorite number is 13 and the book had 544 pages... $5 + 4 + 4 = 13!$ Sadly, I was wrong but I am sure that there will be more codes to crack next school year! I hope you all have a great summer and I look forward to reading your math autobiographies when you return to school!

June Problems

1. Solve the following.

a. 25×72

e. 82×4

b. 1.32×0.82

f. $\frac{1}{4} \times 2\frac{5}{6}$

c. $\frac{4}{5} + 0.5 + 2\frac{3}{10}$

g. $1.25 + 4.8 - 2.03$

d. 1.4×91

h. $126 \div 3$

2. Write the place value for the underlined digit.

a. 19,250

b. 2,154,090.056

c. 32.5089

d. 2,007845

3. Use order of operations to simplify the following.

1. $3 \times 9 + 7$

2. $12 + 36 \div 4$

3. $9 \div 3 + 4 \times 6$

4. $2 \times 11 - 12 \div 2$

4. A pizza is cut into 16 equal slices. You and three of your friends ate $\frac{2}{5}$ of the whole pizza. If you and each of your friends had an equal share, what fraction of the whole pizza did you eat?

July Problems

1. Order from least to greatest.

1. 0.62, 0.5, 0.57

2. $\frac{3}{8}, \frac{4}{5}, \frac{2}{3}$

3. $\frac{2}{5}, \frac{1}{4}, \frac{3}{6}$

4. $\frac{1}{3}, \frac{1}{2}, \frac{1}{8}$

5. 8.7, 7.92, 8.8

6. 3.16, 3.14, 6.14

2. Simplify the following fractions.

a. $\frac{22}{38}$

e. $\frac{27}{45}$

b. $\frac{14}{28}$

f. $\frac{15}{60}$

c. $\frac{65}{45}$

g. $\frac{50}{120}$

d. $\frac{99}{44}$

h. $\frac{32}{4}$

3. You started your own landscaping business. You charge \$6 an hour for mowing lawns and \$11 for pulling weeds. In September you mowed lawns for 63 hours and pulled weeds for 9 hours. How much money did you earn in September?

4. You and a friend are sharing a bag of jelly beans. The bag is *half full* when you both decide to start eating them. After you and your friend have an equal amount of jelly beans, there is $\frac{1}{6}$ of the bag left. What fraction of the jelly beans did you eat?

August Problems

1. Convert the following to an improper fraction.

a. $2\frac{3}{4}$

c. $2\frac{9}{10}$

b. $1\frac{5}{7}$

d. $3\frac{4}{5}$

2. Compare the following.

Compare the fractions by using $>$, $<$, or $=$.

1a. $\frac{4}{12} \square \frac{1}{2}$

1b. $\frac{5}{11} \square \frac{1}{2}$

1c. $\frac{8}{8} \square \frac{11}{12}$

2a. $\frac{2}{4} \square \frac{11}{11}$

2b. $\frac{3}{10} \square \frac{2}{4}$

2c. $\frac{11}{12} \square \frac{11}{11}$

3a. $\frac{1}{2} \square \frac{1}{6}$

3b. $\frac{4}{5} \square \frac{9}{9}$

3c. $\frac{1}{2} \square \frac{6}{11}$

3. Solve the following.

1a. $\frac{4}{11} + \frac{9}{4} =$

1b. $\frac{10}{11} + \frac{1}{6} =$

2a. $\frac{4}{5} - \frac{2}{5} =$

2b. $\frac{6}{4} - \frac{10}{11} =$

3a. $8 \times \frac{8}{11} =$

3b. $3 \times \frac{5}{6} =$

4a. $\frac{5}{8} \div 5 =$

5b. $7 \div \frac{4}{10} =$

4. Fill in the chart below.

Standard Form	Word Form
	One and fifty two hundredths
0.8221	
	Nineteen and four tenths
1.08	
	Three hundred thirteen ten thousandths
92.0091	