End of 6th Grade with Mrs. Cochran and Mrs. LaVecchia, Entering 7th Grade

Summer Assignment 2023

Due Date: September 7, 2023

Objective: Students will practice and expand upon previously learned skills in preparation for more rigorous Math 7 Content.

Overview of Instructions: Complete each problem in the space provided. In order to receive credit for this assignment, you must show work for each problem when applicable. NO CALCULATORS SHOULD BE USED. You must include units when needed, and you must use a ruler for the line graph. If necessary, you may work on a separate sheet of paper, but this work must be turned in with your assignment. Once you have completed a problem, be sure to circle your final answer.

When you return in September, you are expected to hand in your completed Summer Math Packet by Thursday, September 7. On Tuesday, September 12, you will be given a quiz covering the topics from the Summer Math Packet.

Grading: Summer Math Packet – Due Thursday, September 7, 2023

Summer Math Packet Quiz - Tuesday, September 12, 2023

Additional Resources: The material is a review of the 6th grade topics; the topics will not be re-taught in 7th grade. If you have difficulty with anything in the assignment, you can look at all of the video tutorials that we posted for each lesson of every chapter that we did this year. Also, try searching the following sites for tutorials/videos/examples of problems: bigideasmath.com, khanacademy.com, coolmath.com, purplemath.com, math antics.com, mathwarehouse.com, etc. You can also Google it, of course! We encourage you to form study groups to work collaboratively with your peers to successfully complete the assignment.

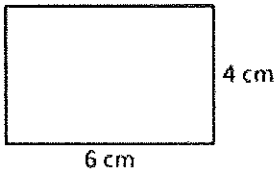
Please do not call the office for a copy of the summer assignment as they will not have one. The packet has been posted to the Summer Math Assignments 2023 Google Classroom as well as the HTS website.

See you in September!!

Name: ALL WORK MUST BE SHOWN

1. **Estimate** the quotient. Show which numbers you use for your estimate. $59 \div 5$	2. **Estimate** the quotient. Show which numbers you use for your estimate. $7.8 \div 8$
3. You need to buy 5 notebooks for your classes at school. Each notebook costs $2.79. What is the total cost of 5 notebooks before tax?	4. Evaluate. $4.5 \div 0.9$
5. Evaluate. $34.1 \div 5.5$	6. Evaluate. 2.7×7.8
7. Evaluate. $2.3 + 3.41$	8. Evaluate. $5.8 - 2.15$

ALL WORK MUST BE SHOWN

9. You have $50 in your savings account. Each week you deposit $5 in your account. Write an expression that models the situation.	10. Solve the equation. Show your steps. a. X + 5 = 10 b. X -2 = 6
11. Solve the equation. Show your steps. a. 5x = 65 b. $\frac{x}{3}$= 11	12. Find the unit rate. a. 6 strikeouts in 2 innings b. $14.28 for 12 bottles of water.
13. You answered 85% of the questions on the quiz correctly. What fraction of the questions did you answer correctly?	14. Write decimal as a percent. a. 0.89 b. 2.37
15. Write the percent as a decimal. a. 3% b. 78% c. 500%	16. Find the area of the rectangle. Include units. 

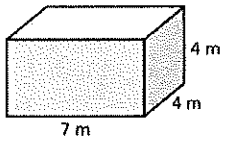
ALL WORK MUST BE SHOWN

17. Order the numbers from least to greatest.

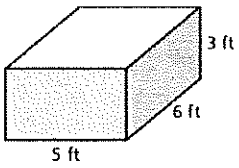
a. $\frac{3}{4}$, 60%, 0.64

b. 34%, 0.3, $\frac{9}{10}$

18. Find the volume of the rectangular prism. Include units.



19. Find the surface area of the rectangular prism. Include units.



20-22. Tell whether the number is *prime* or *composite*. Explain how you know. For example, you could say that 15 is not prime because 3 x 5 = 15, but 13 *IS* prime because it has no factors except 1 and 13.

20. — Prime or composite? **532**

21. Prime or composite? **87**

22. Write the fraction or mixed number as a percent. a. $\frac{53}{100}$ b. $\frac{3}{4}$ c. $8\frac{9}{25}$	23. Write the fraction as a decimal. a. $\frac{13}{20}$ b. $\frac{5}{50}$ c. $\frac{3}{8}$

ALL WORK MUST BE SHOWN

24. Find the mean, median, mode, and range of the data set. 5, 9, 12, 3, 4, 5, 7, 14, 13 Mean: Median: Mode: Range:	25. Evaluate. $\frac{4}{9} \times \frac{4}{9}$
26. Evaluate. $4\frac{2}{5} \times 1\frac{7}{8}$	27. Evaluate. $5\frac{2}{3} \times \frac{6}{11} \times \frac{1}{2}$

28. Evaluate. $8\frac{1}{3} \div 2\frac{2}{9}$	29. $3\frac{3}{4} \div 2\frac{1}{2}$
30. Evaluate the expression. 15 - 4 x 3	31. Simplify. 2 x (8 + 7)

ALL WORK MUST BE SHOWN

32. Evaluate. $9\frac{3}{5} \div 1\frac{7}{15}$	33. Evaluate. $2\frac{2}{5} \div 4\frac{4}{5}$
34. Evaluate. $3\frac{5}{8} - 1\frac{7}{8}$	35. Evaluate. $11\frac{1}{4} - 2\frac{3}{8}$

36. What number is 18% of 50?	37. Write 75% as a fraction in simplest form.
38. What is 30% of 30?	39. What is the divisibility rule for 3?

Complete the statement with >, < or =.

40. 1.007 _____ 1.004

41. 3.052 _____ 3.055

42. 4.61 _____ 0.461

43. 5.750 _____ 5.75

44. 7.34 _____ 7.734

45. 9.976 _____ 9.76

Plot the ordered pair in the coordinate plane. Label each point.

46. A (2, 5)

47. B (6, 1)

48. C (0, 4)

Madison Public Schools - Summer Assignment

Geometry

Healey/Monaco/O'Brien

Assignment rationale/Objective -
The objective of this assignment is to gain a basic understanding of geometric terms and applications that will be used as a foundation for future lessons. The expectation is that you will understand and be able to apply all concepts in this packet. Some of these topics have been previously covered in your mathematics classes.

Required materials -
The Big Ideas online textbook will be required to complete the summer assignment (See instructions on page 2). All work should be shown and recorded on lined paper, numbering questions to appropriate problems assigned.

Overview instructions -
Read each of the assigned sections of the Big Ideas textbook (online.) Then, complete all questions assigned and make sure to show all work. Use pencil and erase any unwanted work. Work should be done in an orderly manner and must be legible.

Estimated time for completion/Suggested pacing -
The assignment should take you approximately 3-5 hours for most students to complete; however, make sure all problems are completed, regardless of how long it takes. It is suggested that you start in the middle of July. Try and complete one section a week, so you do not burden yourself right before we come back to school.

Number of points -
The packet will be collected on the first day of school and will be checked for completeness. This will be worth 10 points. If it is one day late, 5 points will be deducted. After that, no credit will be given for completion of the packet. We will review material during the first few class periods. A test on the material will be given in conjunction with other chapter 1 material not incorporated on the summer assignment. The portion of the test that includes the summer assignment material will constitute approximately 40 points of the test.

Percentage of first marking period grade -
The assignment and portion of the first unit assessment that includes the summer assignment material will be worth approximately 15% of the first marking period grade.

Process for requesting help over the summer -
Please know this assignment is designed for this level course in such a way that you should be able to complete it without needing help with the content. We encourage you to form study groups to work collaboratively with your peers to successfully complete the assignment. The concepts that will be covered are explained throughout the Big Ideas online textbook, including examples. Should you have trouble completing any problems, you are encouraged to utilize the Big Ideas textbook and/or use the web to research the concept.

Some examples of specific website resources that may also be helpful include:

Coolmath.com
Purplemath.com
Khanacademy.com
Summermath.tenmarks.com

If there are any additional questions over the summer, please look at your teacher's website for contact information. If you cannot get in contact with the teacher and have a serious question, please reach out to the Mathematics Supervisor.

Access to Big Ideas Online Textbook

Directions for access early in the summer:

1. Go to https://www.bigideasmath.com/
2. Click on the green button that says "student."
3. On the bottom of the screen, where it says "Easy Access Home Edition," choose "Common Core High School" from the pulldown menu. Then click, "go."
4. Choose your textbook, and you're all set!

Directions for access later in the summer (once an update to the website has been made):

1. Go to https://www.bigideasmath.com/
2. Click on the blue button that says "Looking for easy access materials?"
3. Click on the students tab.
4. On the bottom of the screen, where it says "Easy Access Home Edition," choose "Common Core High School" from the pulldown menu. Then click, "go."
5. Choose your textbook, and you're all set!

Chapter 1

*READ ALL SECTIONS CAREFULLY BEFORE COMPLETING THE PROBLEMS.

Section 1: Make a vocabulary sheet of all **bold faced words** in section 1.1 on pages 4-6.

Section 2: Complete problems on page 16 numbered 15-22.

Section 3: Complete problems on page 25 numbered 15-18, 23-28.

Section 4: Complete problems on page 34 numbered 7, 10, 11, 13, 14, 17-24.

Section 5: Complete problems on page 44 numbered 21-30, 33, 34.

Section 6: Complete problems on page 52 numbered 7-18.