

ACCELERATED 6TH GRADE MATH
ELCA Middle School Honors Program



Summer Assignment 2011-2012



Name and homeroom

Summer "Home" work

Dear Parents and Students:

Greetings and Welcome to 6th grade

This promises to be a rigorous and rewarding year in math. It is my hope to have students who are organized; well-prepared mathematicians.

Please find the attached pages of math problems to be completed over the summer break. I am going to ask that you follow some instruction that will help me understand and assess better, how well you are doing in math. This is multi-day assignment to be completed at your leisure. **DON'T GET OVERWHELMED BY THE NUMEBER OF PAGES. JUST TAKE ONE SECTION AT A TIME OVER THE COURSE OF SEVERAL DAYS. YOU CHOOSE YOUR OWN TIME TO WORK.** 😊

Student instructions:

Complete one set of problems per day. They are sectioned for your convenience.

1. Check your work. This does not mean to glance at the problems, but it means to quickly rework them.
2. Please time your work, and put the time at the beginning of each section. This is not a race, so go at a reasonable pace. I am not looking for speed, but accuracy.
3. I will be grading for neatness. I should be able to look at a problem and follow along; step by step. No shortcuts please and no mental math. Show your work.
4. Please limit parental assistance. Take a break and come back any problems giving you trouble. Use your textbook or the internet to assist you in solving the problems.
5. Calculators are prohibited.
6. You may use notebook paper for extra work space. Be sure your name; section; and number of problem is indicated. Attach to packet.
7. No wrinkled papers please 😊. Neatness is a must. I would suggest keeping the work in a folder.

SECTION I START TIME: _____ COMPLETION TIME _____

Identify the words that match the math function. Use **A** for addition; **S** for subtraction; **M** for multiplication and **D** for division.

1. Product _____
2. Addend _____
3. Quotient _____
4. Divisor _____
5. Sum _____
6. Subtrahend _____
7. Factor _____
8. Dividend _____
9. Minuend _____
10. Difference _____

Complete the problems. Show your work

1.
$$\begin{array}{r} 1,342 \\ + 627 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 10,005 \\ - 2638 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 16,999 \\ + 25,509 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 6,052 \\ - 5,456 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 525 \\ \times 150 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2821 \\ \times 4 \\ \hline \end{array}$$

7. Divide $26 \div 80,311$

8. Divide $486 \div 400,812$

SECTION II START TIME _____ COMPLETION TIME _____

FRACTIONS

List the steps in reducing fractions. You must have at least 3.

1. _____
2. _____
3. _____
4. _____

Write each fraction in simplest form. If it is already in simplest form, write SF.

1. $\frac{20}{27}$

2. $\frac{6}{8}$

3. $\frac{12}{27}$

4. $\frac{13}{52}$

Write each improper fraction as a mixed number-Show your work

5. $\frac{29}{6}$

6. $\frac{99}{50}$

7. $\frac{11}{6}$

Write each mixed number as an improper fraction-Show your work

8. $7\frac{3}{5}$

9. $1\frac{2}{3}$

10. $6\frac{2}{3}$

Make fractions equivalent. Find the missing terms.

11. $\frac{9}{45} = \frac{\quad}{15}$

12. $\frac{2}{3} = \frac{18}{\quad}$

13. $\frac{24}{32} = \frac{\quad}{4}$

14. $\frac{48}{72} = \frac{6}{\quad}$

SECTION III

START TIME _____ COMPLETION TIME _____

FRACTIONS

Adding, Subtracting

Cancellation, Borrowing

List the factors of the following

1. 32-
2. 13-

List the multiples of the following:

1. 20-
2. 11-

Add or subtract. Write in simplest form.

1. $\frac{7}{15} - \frac{4}{15}$ _____ 2. $\frac{10}{12} + \frac{7}{12}$ _____ 3. $\frac{1}{5} + \frac{2}{3}$ _____ 4. $\frac{4}{9} - \frac{1}{6}$ _____

5. $\frac{7}{8} - \frac{5}{12}$ _____ 6. $2\frac{5}{9} + 1\frac{7}{12}$ _____ 7. $8\frac{7}{8} - 5\frac{1}{4}$ _____

8. $3\frac{1}{2} - 2\frac{1}{3}$ _____ 9. $7\frac{1}{2} + 8\frac{3}{4}$ _____ 10. $4\frac{1}{15} - 2\frac{3}{5}$ _____

11. $8\frac{1}{5} - 4\frac{2}{3}$ _____ 12. $4\frac{3}{8} - 1\frac{5}{6}$ _____

SECTION IV- Multiplying and Dividing Fractions; Cancellation

Start time _____ Completion time _____

Multiply. Write in simplest form.

1. $\frac{3}{8} \times 6$ _____

2. $\frac{6}{7} \times \frac{4}{5}$ _____

3. $3\frac{4}{5} \times 2\frac{3}{8}$ _____

4. $2\frac{1}{2} \times 3\frac{1}{3}$ _____

5. $3\frac{5}{7} \times 1\frac{1}{2}$ _____

Divide. Write in simplest form.

6. $\frac{4}{9} \div 36$ _____

7. $\frac{5}{6} \div \frac{3}{8}$ _____

8. $2\frac{3}{5} \div 1\frac{7}{10}$ _____

9. $12\frac{1}{2} \div 5\frac{5}{6}$

10. $3\frac{1}{2} \div 5\frac{1}{4}$ _____

SECTION V Start time _____ Completion time _____

Decimals

Adding; Subtracting; Multiplying

Add or subtract.

1.
$$\begin{array}{r} 0.51 \\ + 0.621 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2.35 \\ + 5 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 20 \\ - 5.98 \\ \hline \end{array}$$

4. $0.23 + 1.2 + 0.36$ _____

5. $13.5 - 2.84 =$

Multiply.

6.
$$\begin{array}{r} 2.612 \\ \times 4 \\ \hline \end{array}$$

7. 9.2×7 _____

8. $7.42 \times 0.2 =$

9. $9.8 \times 4.62 =$

10. $5.63 \times 8.1 =$

11. $10.35 \times 9.1 =$

12. $4.5 \times 0.2 =$

Convert the fractions to decimal and decimals to fractions

13. $.075 =$ _____

14. $\frac{4}{1000}$

15. $120.0056 =$ _____

15. $7\frac{45}{100}$

SECTION VI

Start time _____ Completion time _____

Dividing; ordering; rounding decimals

Divide. Round to the nearest tenth if necessary.

1. $15 \div 55.5$

2. $1.3 \div 12.831$

3. $3.7 \div 0.5$

4. $8.45 \div 2.5$

5. $19.436 \div 2.74$

6. $38.125 \div 9.65$

Order each set of decimals from least to greatest.

8. 15.65, 51.65, 51.56, 15.56

Round each decimal to the indicated place-value position.

9. 4.25 _____
ones

10. 25.19 _____
tenths

11. 4.00098 _____
hundredths

12. 0.0182 _____
thousandths

13. 74.00065 _____
ten-thousandths

Use $>$, $<$, or $=$ to compare each pair of decimals.

14. 12.13 ____ 12.31

15. 0.112 ____ 0.121

16. 6.005 ____ 6.0050

SECTION VII

Start time _____ Completion time _____

Order of operation

List the order of operation

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

When do you perform multiplication/division and adding/subtracting from left to right as oppose to following the order of operations?

Find the value of each expression.

1. $6 \times 8 + 4 \div 2$ _____

2. $8 + 12 \times 4 \div 4$ _____

3. $100 \div 10 \times 2$ _____

4. $14 - 2 \times 7 + 0$ _____

5. $(11 - 7) \times 3 - 5$ _____

6. $156 - 6 \times 0$ _____

7. $11 + 4 \times (12 - 7)$ _____

8. $7 \times 6 - 14$ _____

SECTION VIII

Start time_____Completion time_____

Word Problems- (*show how you got your answer*) Write down your clues and how you decided what math operation(s) to use.

1. The average person in the U.S. eats about 36 pounds of frozen food per year. How many pounds would an average family of four eat?_____

2. In 2000 there was \$3,440,000 in \$10,000 bills in circulation in the U.S. How many \$10,000 bills were there?_____

3. One week, the rainfall for Monday through Saturday was $\frac{3}{8}$ inch. By Sunday evening, the total rainfall for the week was $\frac{7}{8}$ inch. How much rain fell on Sunday? _____

4. Antonio earned \$25 on Thursday and \$65 on Saturday. On Sunday he gave 10% of the money in the offering at church. How much did he give? _____

5. Jack walked from Santa Clara to Palo Alto. It took 1 hour 25 minutes to walk from Santa Clara to Los Altos. Then it took 25 minutes to walk from Los Altos to Palo Altos. He arrived at Palo at 2:45pm. At what time did he leave Santa Clara?

SECTION IX

Start time_____ Completion time_____

Divisibility Rules

Write out the definition for the following:

1. Two-
2. Three-
3. Four-
4. Five-
5. Six-
6. Nine-
7. Ten-
8. Eleven-

AWESOME JOB!!! I WILL SEE YOU SOON.
GOD BLESS YOU

MS. HUNLEY