PS duPont Middle School

Welcome to Honors Pre-Algebra!

Dear students and parents,

In order for you to be as successful as possible during the next school year, I have put together some basic review work for you to complete this summer. This material should be familiar to you since it should have been covered in your 6th grade math class. If there are any problems that you are unable to complete on your own, now is the time to seek help from family members, friends, or possibly tutors.

Do not wait until the week before school starts to begin this review work. Do not use a calculator, show all work, and record your final answer in the space provided. If you require more space than what is given, complete the problem on a separate sheet of paper and attach it to the review packet.

Do your best to complete each exercise and make sure all of your work is presentable. **This is a required assignment of the Honors Pre-Algebra course and it will be collected on the first day of school.**

If you have any questions, please email me at Sabrina.fitzhugh@bsd.k12.de.us anytime throughout the summer.

Enjoy the rest of your summer and I look forward to seeing you at the end of August!

Mrs. Sabrina Fitzhugh
P.S. duPont Math Teacher

Supply List

$1\frac{1}{2}$ inch 3-ring binder [Heavy Duty]

At least 2 GRAPH paper spiral notebooks [3-hole punch]

Loose Leaf Paper

Pencils

Recommended: 3-hole punch pencil pouch for your binder

Donations of tissues, pencils, or eraser tops would be much appreciated

Inventory I

Name: _____

Number Sense

Date: _____

This assessment will test how well you remember the appropriate procedures for computing with whole numbers, decimals, fractions, and mixed numbers.

Addition – Show all work and place your answer on the blank.

1. $475 + 6 + 1000$

2. $4.75 + 6 + 1.000$

1. _____

2. _____

3. $\frac{4}{9}+\frac{7}{9}$

4. $\frac{2}{3}+\frac{5}{9}$

3. _____

4. _____

5. $1\frac{1}{2}+3\frac{2}{3}$

6. $3\frac{2}{5}+2\frac{3}{4}$

5. _____

6. _____

Subtraction – Show all work and place your answer on the blank.

7. $45 - 19$

8. $400 - 215$

7. _____

8. _____

9. $45 - 22.4$

10. $22.5 - 22.49$

9. _____

10. _____

11. $\frac{5}{8} - \frac{1}{2}$

12. $10 - 5\frac{2}{3}$

11. _____

12. _____

13. $4\frac{1}{4} - 1\frac{2}{3}$

14. $15\frac{2}{7} - 9\frac{7}{8}$

13. _____

14. _____

Multiplication – Show all work and place your answer on the blank.

15. 57×3

16. 28×14

15. _____

16. _____

17. $.2 \times .3$

18. $1.8 \times .04$

17. _____

18. _____

19. $\frac{2}{3} \times \frac{1}{2}$

20. $1\frac{2}{3} \times 2\frac{2}{5}$

19. _____

20. _____

Division – Show all work and place your answer on the blank.

21. $534 \div 3$

22. $216 \div 12$

21. _____

22. _____

23. $45.6 \div 5$

24. $52.16 \div 0.4$

23. _____

24. _____

25. $\frac{2}{3} \div \frac{4}{5}$

26. $2\frac{3}{5} \div 1\frac{1}{2}$

25. _____

26. _____

Inventory II Name: _____

Percent Date: _____

This assessment will test how well you can work with percents.

Write each percent as a decimal and a simplified fraction. Show all work.

1. 10% 2. 25% 3. 50% 4. $66\frac{2}{3}\%$

Dec: _____ Dec: _____ Dec: _____ Dec: _____

Frac: _____ Frac: _____ Frac: _____ Frac: _____

Write each decimal as a percent and a simplified fraction. Show all work.

5. .75 6. .4 7. .04 8. .65

% _____ % _____ % _____ % _____

Frac: _____ Frac: _____ Frac: _____ Frac: _____

Write each fraction as a percent and decimal. Show all work.

9. $\frac{4}{5}$ 10. $\frac{1}{3}$ 11. $\frac{5}{8}$ 12. $\frac{17}{20}$

% _____ % _____ % _____ % _____

Dec: _____ Dec: _____ Dec: _____ Dec: _____

Find the percent of each number. Show all work and place your answer on the blank.

13.	40% of 50	14.	25% of 120	13. _____
				14. _____
15.	15% of 60	16.	2% of 250	15. _____
				16. _____

For 17 through 20, show all work and answer in a complete sentence.

17. A CD player that usually sells for $68 has a red tag on it that says "25% off at the register." How much will the CD player cost after the discount?

18. A poll shows that 60% of the people in New Castle would vote to reelect the mayor. If New Castle has 25,000 voters, how many people would you expect to vote for the mayor?

19. A luggage company says that 3% of their bags are defective. If the company produces 3,500 bags each week, how many of these bags would you expect to be defective?

20. Kayla makes $950 a week as a teacher. She just earned her Master's degree and expects to get a 15% raise. What should she now earn each week?

Inventory III Name: _____

Statistics and Probability Date: _____

Statistics – Show all work and put your answer on the blank.

1. Find the mean, median, mode, and range for the following numbers:

   16, 21, 18, 32, 16

   Mean _____

   Median _____

   Mode _____

   Range _____

2. Mike's grades on the last 4 tests in science were 84%, 96%, 92%, and 78%. What is his median score?

   2. _____

3. Find the mean for the following sets of numbers.

   A. 2.3, 3, 5.11 3A. _____

   B. 11, 5, 0, 8, 24 3B. _____

4. The temperature for the past 12 hours was taken and recorded each hour. The temperatures were: 58, 54, 60, 62, 66, 70, 76, 80, 79, 77, 75, 70
   What is the range?

   4. _____

5. Aaron's grades for math are 85%, 88%, 94%, and 89%. What is his current grade as a percent?

   5. _____

6. The PS basketball team averaged 34 points per game last season. If they played 8 games, what was the total number of points scored for the whole season?

   6. _____