

# 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 6<sup>th</sup> 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](mailto: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

### Honors Pre-Algebra Supply List

1½ inch 3-ring binder [Heavy Duty]

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

Loose Leaf Paper

Pencils, colored pen, high-liter

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.  $57 \times 3$

16.  $28 \times 14$

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. \_\_\_\_\_