5th Grade Assignments – Week #5

<u>Group Assignment</u>: (Done either on Tuesday or Thursday)

Making Change (at the Cash Register).

To play Mr. York's change game, you have to make sure that you never have more coins and bills in your wallet than is necessary. For example, there can't be 8 pennies in your wallet, because you could trade 5 pennies for 1 nickel. Similarly, you can't have 3 five-dollar bills, because 2 of them could be traded for a ten-dollar bill.

Solve each problem, while making sure that Mr. York is properly playing his change game:

1. Mr. York has this in his wallet:
   - 2 twenty-dollar bills
   - 1 five-dollar bill
   - 3 one-dollar bills
   - 2 quarters
   - 1 dime
   - 4 pennies

   At the store, he has to pay for a $6.42 bill. What should he give the cashier, and what will he get back in change?

2. Mr. York has this in his wallet:
   - 3 twenty-dollar bills
   - 4 one-dollar bills
   - 1 dime
   - 1 nickel
   - 4 pennies

   At the store, he has to pay for a $31.28 bill. What should he give the cashier, and what will he get back in change?

3. Mr. York has this in his wallet:
   - 4 twenty-dollar bills
   - 1 ten-dollar bill
   - 3 one-dollar bills
   - 1 quarter
   - 1 dime
   - 1 nickel
   - 4 pennies

   At the store, he has to pay for a $17.81 bill. What should he give the cashier, and what will he get back in change?

4. **Mr. York's *Law of Pennies*.**
   If Mr. York has 4 pennies in his wallet, how can he look at the bill and know how many pennies to give?

5. **Puzzle!**
   Hank and Dexter together made 24 Christmas cards. Hank made one-third as many as Dexter. How many cards did Hank make?

6. **Puzzle!**
   Henry earns $90 per day at his job. He works 5 days per week. He pays $150 per week for rent, and $85 per week on food. After rent and food, how much money does he have per week for everything else?

Individual Work

Work on the following problems. Just do what you can!

1. Write equivalent fractions for $\frac{5}{6}$

2. Write equivalent fractions for $\frac{3}{4}$

3. What are the possible common denominators for the fractions in #1 and #2?

4. Now calculate $\frac{5}{6} - \frac{3}{4}$

5. Write equivalent fractions for $\frac{3}{20}$

6. Write equivalent fractions for $\frac{7}{30}$

7. What are the possible common denominators for the fractions in #5 and #6?

8. Now calculate $\frac{3}{20} + \frac{7}{30}$

Solve the following problems.

9. 457+34

10. 785+973

11. 645-219

12. 683-286

13. 74x6

14. 28x64

More Difficult Problems (only if there is an abundance of time and desire!):

15. 75,937+7,305

16. 845+738+59+2,843

17. 806-429

18. 764x386