Worksheet #2 1.  $\frac{1}{x} + \frac{1}{2x} + \frac{1}{3x} = 3$ . Express x as a fraction in lowest terms.

2. In how many ways can you pay 80 cents using any combination of 5, 10, and 25 cent coins?

3. A triangle has sides L, M, and N, where 0 < L < M < N < 12 are all whole numbers. The perimeter of the triangle is P. How many different values of P are there?

4. There is a pile of 5 cards numbered 1,2,3,4,5 on the table. Gloria takes 3 different cards at random from the pile and writes down the sum of these 3 cards. What is the probability that the sum is a multiple of 3? Express the answer as a fraction in lowest terms.

5. x is a 2-digit positive number whose digits are two consecutive odd numbers. y is defined to be the 2-digit positive number with the digits of x reversed. What is the maximum possible value of N = x + y?