Algebra 1 ECA Remediation Name_____

Homework 5.2

1) Shanice bought three candy bars for a total of $3.81.

   A. Write an inequality that Shanice can use to deteremine how many candy bars she can purchased with $10.

   B. How many candy bars can Shanice buy with $10?

2) Tammy was able to purchase 8 packages of diapers for $56.

   A. Write an inequality that Tammy can use to determine the maximum number of packages of diapers that she purchase with only $40.

   B. What is the maximum number of packages of diapers that Tammy can purchase with only $40?

3) You had $23 to spend on seven raffle tickets. After buying them you had $9 left over to go to the movies.

   A. Write an inequality that can be used to determine the maximum number of raffle tickets your sister can purchase if she also needs $9 dollars for the movies and has $19 to start with.

   B. What is the maximum number of raffle tickets your sister can purchase with $19, and still have $9 left over to go with you to the movies?

4) 184 students went on a field trip. It takes 3 full buses and 22 students still had to traveled in cars.

   A. Write an inequality to determine the minimum number of buses that are needed to transport 212 students on the next field trip if no cars are available.

   B. How many buses are needed to transport 212 students on a field trip without the help of any cars?

Solve each proportion.

5) $\frac{x-3}{4} = \frac{4}{2}$

6) $\frac{7}{5} = \frac{4-3x}{10}$

Answers to Homework 5.2

1) $10 > 1.27x$, 7 candy bars
2) $40 > 7x$, 5 packages of diapers
3) $19 > 2x + 9$, 5 raffle tickets
4) $212 < 54x$, 4 buses
5) $\{11\}$
6) $\{-\frac{10}{3}\}$