Algebra 1 ECA Remediation Name_____

Homework 5.1

1) Bill spent $14 on seven toy cars.

   A. Write an inequality that can be used to determine the maximum number of toy cars that can be purchased with $9.75.

   B. What is the maximum number of toy cars that can be purchased with $9.75?

2) You purchase 3 boxes of envelopes for $10.17.

   A. Write an inequality that can be used to determine the maximum number of boxes of envelopes that can be purchases with a budget of $25.

   B. What is the maximum number of boxes of envelopes that can be purchased with $25?

3) Ming's Bikes rents bikes for $18 plus an hourly rate. Lea paid $33 to rent a bike for 5 hours.

   A. Write an inequality that can be used to determine the number of hours that Lea can rent a bike if she has $40.

   B. What is the maximum number of hours that Lea can rent the bike if she has $40?

4) You bought one $5 magazine and 4 notebooks for $16.

   A. Write an inequality that can be used to determine the maximum number of notebooks that can be purchased along with one magazine if you only have $13.50.

   B. What is the maximum number of notebooks that can be purchased along with one $5 magazine, if you only have $13.50?

Solve each proportion.

5) $\frac{6}{8} = \frac{7n - 14}{7}$

6) $\frac{x - 6}{9} = \frac{4}{2}$

Answers to Homework 5.1

1) $9.75 > 2x$, 4 toy cars
2) $25 > 3.39x$, 7 boxes of envelopes
3) $40 > 3x + 18$, 7 hours
4) $13.50 > 2.75x + 5$, 3 notebooks
5) {2.75}
6) {24}