

# Lesson 7 Problem-Solving Practice

## Solving Inequalities

1. Gabrielle went to the movie theatre with her friends. She had \$20.00 to spend. The movie ticket cost \$6.25. Write an inequality to determine how much money she had to spend on snacks.

2. An adult female flea lays more than 25,000 eggs every month. What is the minimum number of eggs laid by an adult female flea in one week.  
Let 1 month = 4 weeks.

3. The American Quarter Horse is the most popular riding horse in the world. The average weight of an American Quarter Horse at birth is 85 pounds. They grow to a maximum weight of 1300 pounds. Write and solve an inequality to find how many pounds an American Quarter Horse may gain from birth to adulthood.

4. A big league pitching coach tries to limit his pitchers to 110 pitches per game. If the pitcher has already thrown 52 pitches, write and solve an inequality to find how many more pitches he can throw before reaching the limit.

5. Winona Toy Company makes many kinds of toys. The table shows average production times.

Toy	Average Production Time (hours)
fire truck	2
train	$3\frac{1}{3}$
stuffed bear	$2\frac{1}{4}$
doll	4

Stella is a stuffed bear maker. She works 10 hours a day. Write and solve an inequality to determine the maximum number of bears Stella may make in a day.

6. Refer to the table in Exercise 5. Winona Toy company hopes to sell a lot of trains during the holiday season, so the managers hire another worker to make trains. What is the maximum number of trains that two workers can make in a 40-hour work week?