

Name \_\_\_\_\_

Date \_\_\_\_\_

## Inequality Word Problems

1. Sara goes to Fredonia University. She has \$900 in her savings account. She needs to buy a small laptop computer before the next semester. The laptop costs \$600. Every 2 weeks she withdraws \$60 from her savings account for food. How many times can Sara withdraw money for food? Write an inequality to explain.

2. You want to rent a limousine for a trip to the city. The limo costs \$700 for the night and \$0.15 per mile. You have \$750 to spend. Write an inequality that represents this scenario. How many miles can the limo travel?

3. Jessica is getting ready for college she needs to have an overall grade of 85 in her Math class to qualify for the college that she wished to attend. Her math grade is based solely on her scores on 6 exams. On the first 5 exams her scores were 87, 81, 85, 90, 78. Write an inequality that represents her predicament. What score does she need to get on her last test to qualify?

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## Answer Key

1.  $900 - 60t \geq 600$

Answer = 5 times or \$300

2.  $m =$  miles travelled.

$$0.15m + 700 \leq 750$$

Solving for  $m$ :  $0.15m \leq 50$

$$m \leq 333.33 \text{ miles}$$

3.

$$\frac{87 + 81 + 85 + 90 + 78 + x}{6} \geq 85$$

6

$$421 + x \geq 510$$

$$X \geq 89$$