Name	Section

Real-World Equations and Inequalities

- 1) A cheese pizza costs \$5. Additional toppings cost \$1.50 each.
- a) Write an equation in two variables that represents the total cost of a pizza.

- b) Identify the independent and dependent variable.
- c) How much does a pizza with 3 toppings cost?

- 2) It costs \$35 to join a gym. The monthly fee is \$25.
- a) Write an equation in two variables that represents the total cost of a gym membership.

- b) Identify the independent and dependent variable.
- c) What is the total cost of your gym membership after 7 months.

Name	Section
 An online store has the following advertis "FREE Standard Shipping when You have already spent \$24 shopping online for a) Write and solve an inequality to rep spend to get free shipping. 	you spend \$75 or more!" or clothes.
b) You find a pair of shoes that cost \$! enough to get free shipping? Explain.	51. Will the clothes and the shoes be
2) A one-way bus ride costs \$1.75. A 30-day a) Write and solve an inequality to find	d the least number of one-way rides

you must take for the 30-day pass to be a better deal.

b) You ride the bus an average of 20 times each month. Is the pass a better deal? Explain.

- 1) Write an equation and solve for the following word sentences.
 - a) 24 is 3 times a number p.
 - b) 3 less than a number p is 24.
 - c) The quotient of a number p and 3 is 24.
 - d) 24 is 3 more than a number p.
- 2) Write an inequality and solve for the following word sentences.
 - a) 32 is more than 8 times a number g.
 - b) 8 more than a number g is at least 32.
 - c) 8 is less than 32 less than a number g.
 - d) 32 is at most the quotient of a number g and 8.