Exercise – Inequality

- 1. Emma got a new job and will have to move. Her monthly income will be \$5,625. To qualify to rent an apartment, Emma's monthly income must be at least three times as much as the rent. What is the highest rent Emma will qualify for?
- 2. Alan is loading a pallet with boxes that each weighs 45 pounds. The pallet can safely support no more than 900 pounds. How many boxes can he safely load onto the pallet?
- 3. The elevator in Yehire's apartment building has a sign that says the maximum weight is 2,100 pounds. If the average weight of one person is 150 pounds, how many people can safely ride the elevator?
- 4. Dawn won a mini-grant of \$4,000 to buy tablet computers for her classroom. The tablets she would like to buy cost \$254.12 each, including tax and delivery. What is the maximum number of tablets Dawn can buy?
- 5. Angie has \$20 to spend on juice boxes for her son's preschool picnic. Each pack of juice boxes costs \$2.63. What is the maximum number of packs she can buy?
- 6. Daniel wants to surprise his girlfriend with a birthday party at her favorite restaurant. It will cost \$42.75 per person for dinner, including tip and tax. His budget for the party is \$500. What is the maximum number of people Daniel can have at the party?
- Pete works at a computer store. His weekly pay will be either a fixed amount, \$925, or \$500 plus 12% of his total sales. How much should his total sales be for his variable pay option to exceed the fixed amount of \$925?
- 8. Rameen's heating bill is \$5.42 per month plus \$1.08 per therm. How many therms can Rameen use if he wants his heating bill to be a maximum of \$87.50?