IF Statement Exercises:

1. Suppose the price of a product will change at date in the future :

Date	Price
On or before February 15,2004	$8
From February 16, 2004, through. April 10 ,2005	$9
From April 11 .2005, through January 15, 2006	$10
After January 15,2006	$11

Write a formula that will compute the price of a product based on the date of the products sold.

2. The blue Youder airline light from Seattle to New York has a capacity of 250 people. The airline sold 270 tickets for the flight at a price of $300 per ticket. Tickets are non-refundable. The variable cost of flying a passenger (mostly food cost and fuel cost) is $30 per passenger. If more than 250 people show up for the flight. The flight is overbooked and blue youder may pay overbooking compensation of $350 per person to each overbooked passenger. Develop a worksheet that computes Blue Yoder's profit based on the number of customer who shows up for flight.

3. The major drug company is trying to determine the correct plant capacity for a new drug. A unit of annual capacity can be built for a cost of $10. Each unit of the drug sells for $15 and incurs variable cost of $2. The drug will be sold for 10 years. Develop a worksheet that computes the company's 10 years profit given the chosen annual capacity level and the annual demand for the drug. We will assume demand for the drug is the same each year. You can ignore the time value of money in this problem.

4. Our drug company is producing a new drug. The company has made a following assumptions:

   - During year 1, 100,000 will be sold
   - Sales will grow for three years and then decline for seven years
   - During the growth period, sales will grow at the rate of 15 percent per year. During the decline the sales will drop at a rate of 10 percent per year.

Develop a worksheet that takes value for year 1 sales, length of growth cycle, length of decline cycle, growth rate during growth cycle, and rate of decrease during decline cycle, and compute unit sales for years 1- 11.

5. We are bidding on a construction project. The low bid will get the project. We estimate our project cost at $ 10,000. Four companies are bidding against us. It costs $400 to prepare the bid. Write a formula that (given the bids of our four competitors and our bid). Computes our profit.

6. Our drug company believes that the new drug will sell 10000 units during 2004. They expect two competitors to enter the market. The year, in which both the competitor enters, our company expects to lose 30 percent of its market share the size of the market is growing at 10 percent per year. Given values of the years in which the two competitors enter. Develop the worksheet and computes the annual sales for the years 2004 – 2013.

7. A clothing store has ordered 100,000 swimsuits. It cost $22 to produce a swimsuit. They plan to sell them until August 31 at a price of $40 and then mark a price down to $30. Given values for demand through August 31 and after August 31. Develop a worksheet to computes the profit from this order.

8. Refer to the IF statement excel workbook. Given people's name on one line, their street address on the next line, and their city, state and zip code on the following line. How could you put each person's information in on one line?

9. Refer to the IF statement excel workbook. Given unit sold of each product and total revenue. We want to determine the average price of each product. Of course, if unit sold are 0, then there is no average price. Error trap the excel workbook to ensure that all the products with 0 sales yield the message "no sales" instead of a #DIV! 0 errors.

10. Refer to the IF statement excel worksheet. Given the list of people who bought your product in February and a list of people who bought it in March. Determine how many of your February customers purchased your product in March.