

**CHAPTER** **Project Recording Sheet**  
**13** *Polynomials*

**What Did We Make?**

How much should we charge for our product or service? This is the question that every business must answer correctly to find and keep customers and make a profit. A financial analyst can help the make pricing decisions that create a profit in a competitive market.

What are the factors that affect sales? Most customers look for quality, value, and service.

1. Which has more effect on the total cost, fixed costs or variable costs? \_\_\_\_\_
2. Does the size of the production run make any difference? \_\_\_\_\_
3. Use the data in your student book to determine what would happen if:
  - a. the fixed costs doubled \_\_\_\_\_
  - b. the cost of CD blanks rose to \$1 \_\_\_\_\_
  - c. no packaging was needed \_\_\_\_\_

Price (\$)	2.00	2.25	2.50	3.00	4.00
% Purchase	100	90	80	60	50

4. Check this data of the sales in the table above. What happens to the amount purchased as the price goes up?  
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5. If 5000 CDs would be sold at \$2.00 how many would be sold at \$4.00? \_\_\_\_\_
6. Sales is equal to the number of CDs sold times the price of the individual CD. Show this relationship in an equation.  
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7. Write an equation to show the relationship between sales, costs, and profit.  
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**Extension:** What is the relationship among costs, price, sales, and profit?  
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