

## Applied Algebra 2 Sample Assessment

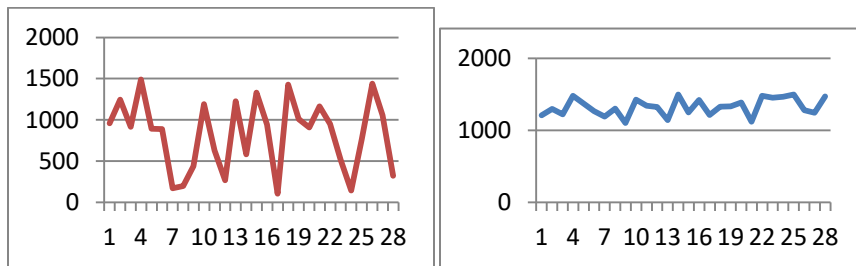
### Budget and Other Calculations

Essential Standards addressed:

- Model the world mathematically
- Solve complex problems, even those that they have not previously seen
- Use and prepare data for analysis, prediction, and planning
- Have number sense
- Use logic and reason to argue positions and support proofs

1. What is 15% of 80? What is 15% more than 80? What is 15% less than 80?

2. Can you make predictions using the following charts? Why or why not? If you can make predictions based on the data of either chart, what would you predict for day 30? Show or tell the reason for your prediction(s).



3. Your income for the week (6 days) is \$1200. Your expenses for the same time are \$570. What is your net income? What is the average amount of income you made each day? What is the average amount of expenses per day? What is the average net income per day?

4. What is the definition of cost of goods sold?

5. What is the definition of overhead?

6. Your sales tax is 9.0%. What is the total price your customer pays if the goods bought cost \$15?

7. Your sales tax is 9.0%. What is the cost of goods the customer bought if the total cost is \$15?