

## Lab Framework

**Text: CORD Classic**

**Unit number and title: Unit 5 - Best Buy**

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**Date: June 27, 2007**

### Lab Title

## Did you get the best buy?

**Contact Information:** gredvig.lisa@yakimaschools.org

**Short Description:** Given grocery store advertisements from the current week, students will develop a table of items to purchase. Students will compare and contrast store prices for 5 items from 3 different grocery stores and determine cost benefits, if any, of traveling to three different stores versus one.

## LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**

The student will be able to collect, organize and interpret data from multiple sets of information.

- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)

Unit 1 - Learning Problem-Solving Techniques

Unit 3 - Measuring in English and Metric Units

Unit 4 - Using Graphs, Charts and Tables

- **New Vocabulary**

Collect

Data

Interpret

Organize

Source

Table

- **Materials List**

Wednesday Grocery Store advertisements (each group)

Lab Sheet

Mileage Chart

Pencil

Calculator

- **GLEs addressed**

Math:

**1.4.2** Use procedures to determine possible outcomes of situations or simple experiments.

**1.1.8** Apply estimation strategies to determine reasonableness...

**2.1.1** Formulate questions to be answered to solve a problem.

**2.2.3** Apply a variety of strategies and approaches, to construct solutions.

**4.1** Gather information

**5.3.1** Understand that mathematics is used extensively in daily life outside the classroom.

Reading:

2.3.4 Synthesize information from a variety of sources.

3.2.2 Apply understanding of complex information, including functional documents, to perform a task.

Writing:

2.2.1 Demonstrates understanding that writing has different purposes

2.4.1 Produces documents used in a career setting.

- **Leadership Skills**

Group Skills

2.1 The student will communicate, participate, and advocate effectively in pairs, small groups, teams, and large groups in order to reach common goals.

- **SCAN Skills**

**Arithmetic**

A. Performs basic computations

B. Uses basic numerical concepts such as whole numbers and percentages in practical situations.

C. Makes reasonable estimates of arithmetic results without a calculator.

**Mathematics**

A. Approaches practical problems by choosing appropriately from a variety of mathematical techniques.

B. Uses quantitative data to construct logical explanations for real world situations.

C. Expresses mathematical ideas and concepts orally and in writing.

D. And understands the role of occurrence and prediction of events.

**Writing**

A. Communicates thoughts, ideas, information, and messages in writing.

B. Records information completely and accurately.

**Thinking Skills**

*Decision Making* – Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternatives.

- **Set-up information**

A. Divide students in groups of 4

B. Handout Wednesday grocery store advertisements to each group

C. Handout Lab Data Collection worksheet

- **Lab organization**(-Grouping/leadership opportunities/cooperative learning expectations; -**Timeline required**)

A. One – 55 minute class period

B. Supply Clerk

C. Group Recorder

- **Teacher Assessment of student learning** (scoring guide, rubric)

A. Teacher Observation

B. Grading of Lab Data Collection worksheet

- **Summary of learning** (to be finished after student completes lab)
  - discuss real world application of learning from lab
  - opportunity for students to share/present learning
  - discuss “sampling” – did students have enough representation of prices?
- **Optional activities**

You need to purchase a new battery for your IPOD. How will you go about deciding where the battery is to be purchased? Document your answer in your journal.
- **Career Applications**

*Point of Sale Manager:* Anyone in charge of pricing in a store has the responsibility of getting customers to their store instead of competition. Advertisement and pricing is key to this objective.

## **LAB TITLE: Did you get the best buy?**

### **STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**

Given grocery store advertisements from the current week, your group will develop a table of items to purchase. You will compare and contrast store prices for 5 items from 3 different grocery stores and determine cost benefits, if any, of traveling to three different stores versus one.
- **Grouping instructions and roles**

Supply clerk

  - Pick up Wednesday grocery store advertisements for your group
  - Pick up Lab Data Collection worksheets for each person in your group

Group Recorder

  - Record final group worksheet to be turned into instructor for assessment
- **Procedures** – steps to follow/instructions
  - Divide yourselves in groups of 4
  - Complete lab sheet for **ONLY** your grocery store advertisement. Calculate cost to travel to your store per mileage given.
  - Once you have completed your worksheet give information to Group Recorder for final group worksheet completion
  - Group recorder needs to staple individual lab worksheets to **BACK** of group worksheet
- **Outcome instructions**
  - Once you have completed your worksheet give information to Group Recorder for final group worksheet completion
  - Turn in completed worksheets
  - Clean up work area (put newspaper advertisements in recycle bin)
- **Assessment instructions** (peer-teacher)
  - Teacher observation – follow directions carefully
  - Complete lab individual/group worksheets
  - Work area is clean

## Lab Data Collection

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Unit:** \_\_\_\_\_

**Lab Title:** Did you get the best buy?

**Criteria:** Write the problem/objective in statement form

**Data Collection:** Record the collected/given data

Item (any brand unless specified)	Safeway	Albertson's	Wray's
1 lb. T-bone Steak			
2 lbs. boneless chicken breast			
case of Coca-Cola			
1 pt. of strawberries			
Gallon of 2% milk			

**Calculations:** Complete the given calculations to solve for an answer(s)

Store	Mileage	\$.042 per mile
Safeway	7	
Albertson's	12	
Wray's	16	

**Summary Statement:**

**Other Assessment(s)**