

Internet Home Shopping

Mathematics, Social Studies

Intermediate

by

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Purpose: Students use tools such as the Internet, Spreadsheets/Word Processors to research and present their findings in a real world task.

Description: Each student is presented with this problem: While riding their mountain bike in the Palos Forest Preserve, they suffered a minor mishap and crashed. They were not injured, but the same cannot be said of their trusty iron horse. The chain rings and drive side crank both struck a rock and will require replacement. Using their IP, browse the Web to locate at least three sources that sell Shimano Deore XTR cranksets, and Sachs P61 chain. Using the graphing function of their spreadsheets or word processors, illustrate the following for each vendor - Name of vendor, address (WWW as well as physical address), Stock number of Item, Price of Item, Tax, if applicable, Shipping charges.

Activities:

1. Introduce the activity through short presentation, including physical presentation of a bike with aforementioned damage. Have supporting documentation such as Bicycling Magazines Repair Guide, or Richardsons Shop Repair Guide for students to peruse.
2. Explain that many web sites exist that specialize in bicycle parts, and that their task is to use their web browser, locate at least three of these sites, and discover their selling price of the damaged items, and all related charges (tax, shipping) and to include those charges in their report.
3. Explain that even though this is a real world activity, they will not be able to actually order the necessary parts because they do not have access to the required credit card numbers, and that although the sites they will be using will present a preordering total, at that time, they must either physically write down the information, or use their screen capture to print the page for later inclusion in their report.
4. Using the graphing function of their spreadsheet, create a graph comparing costs of the items as a total package from each vendor.
5. Create a short presentation for the class that will last no longer than 5 minutes that will include the following - Web Browser used, Name and WWW address of the vendors visited, Graphic representation of findings, Choice of vendors based on findings.

Standards by Activity

| | STATE | CPS | NETS |
|----|---------|-----------|-------|
| 1. | Math 8 | CAS B 1-4 | 3 |
| 2. | Math 9 | CAS A 1-4 | 4 |
| 4. | Math 10 | CAS A 1-3 | 1,4,7 |
| 5. | Math 10 | CAS A 1-3 | 4,10 |

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