



4.20: Using Excel to Find Averages

Prerequisite Skills and Knowledge

- ∞ Students should have basic knowledge of Microsoft Excel. They should be able to do a keyword search keywords on the Internet and use safe search techniques when accessing information.

Time Required

- ∞ Mini-lesson and guided practice: 20 minutes, this lesson may take several consecutive lessons to complete, depending on how many items students will purchase and compare.

Materials

- ∞ Computer lab, Microsoft Excel, internet access, notebook paper, pencils LCD projector

Intended Learning

- ∞ Students will comparison shop for items on the Internet and create a spreadsheet with graphs to show the minimum price for the same video system.

District Technology Standards Produces Quality Work

- ∞ Spreadsheet
- ∞ Uses formulas such as sum, average, and differences to create a graph or chart

Big Ideas from Grade 4 Year at a Glance -Math

- ∞ Using numbers and organizing data

Mini-Lesson

Connection - preparing students' thinking

Can we use Microsoft Excel to show differences instead of just adding and averaging numbers?

How many of you have ever checked prices on the internet for purchases you make in order to pay the lowest price?

Teaching - Mini Lesson

Students should be seated at computers as you open Microsoft Excel using the LCD projector to create a new spreadsheet.

Model how to select File, Save As and save the file as your name+new assignment.

Notes

Show students how to find the row A1 and type in “Store”
Go to
cell B1 , and type “Wii” In cell C1 type “in cell D1 type
“Xbox” in cell E1 type “Gamecube” in cell F1 type
“Nintendo DS”.

Open Internet Explorer for a browser. Tell students they
will use the following websites to find prices for a video
game system, www.etoys.com, www.toysrus.com,
www.kbtoys.com, www.toystoreexpress.com.

Model how to copy a price for a game system into the
spreadsheet.

Tell students in order to show the differences in prices they
will click and highlight the prices of each game system, then
select Autosum, Σ to find the minimum price. They can
select cell G1 to place the minimum price. Show students
example spreadsheet below.

Active Engagement - Guided Practice

Seated at computers, students will open Microsoft Excel.

They will create a spreadsheet like the example below, and
find prices on the internet. When they have finished
entering their prices, they will select a chart to create to
show the differences in prices of the systems.

By selecting and highlighting the cells they can go to ISERT
and insert a chart that they choose.

Link

Students should work independently and use safe searching
techniques on the internet, such as selecting only the
websites shown to find pricing information. They should
complete the spreadsheet, and create a graph or chart, then
ask permission to print

Independent Practice

Teacher

- ∞ Circulate and answer individual questions, progress check for
daily participation on class spreadsheet.

Students

- ∞ Work independently, finish spreadsheets, make charts, print
finished work, ask for help when necessary.

Differentiation:

Students who excel may insert images
into their finished documents of the
different videogames, or act as peer
helpers.

Students who struggle may receive
individual help from the teacher, or
more time to complete the assignment

Sharing/Closure

- ∞ Ask students to compare the prices they found for the same items, there may be some price differences. Tell them to share their finished charts and graphs with a pair/share.

- ∞ Ask for any difficulties they encountered, any internet sites they may have discovered with different prices. What was easy? What was difficult?

Assessment

- ∞ Progress/Monitor for daily participation using a checksheet as you walk around and observe students. Using a rubric with a score of 1-4, a "4" given for a complete assignment, spreadsheet, graph or chart and accurate information, following the directions given.

Store
Toysrus
Etoys
KB Toys
Toy Store Express

Wii

Playstation3

XBox

Gamecube

Nintendo DS