

Name: _____

Start date: _____

Hand in date: _____


Mark: _____

Math 8 K&E

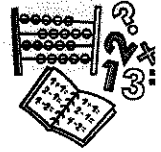
Spread Sheets &

Data Bases

Spreadsheets and Databases

Unit: Spreadsheets & Databases	I Can	Do 
1. Spreadsheets	I can tell you why spreadsheets are used.	
2. Databases	I can tell you why a database is used.	Practice: pp. 175–177

Spreadsheets and Databases



Spreadsheets and databases are used to store and organize information.

Spreadsheets



Spreadsheets are used to list information and related numbers. For example,

- accountants organize and track income and expenses of business
- farmers record data on crops, cattle and other commodities
- teachers use spreadsheets to record students, assignments, tests and marks.

One advantage of spreadsheets is that the related parts will automatically adjust when new information is added.

Each cell, row or column of a spreadsheet is set up and changed according to the needs of the user.

For example, the spreadsheet below shows assignments and marks of a student.

Assignments	Marks in Percent
Central tendency	72
Interpreting graphs	60
Inferences	80
Making graphs	56
Average	67

The next spreadsheet shows the marks of the same student, with two new assignments and marks added. When the new marks are added, the average will automatically change on the spreadsheet.

Assignments	Marks in Percent
Central tendency	72
Interpreting graphs	60
Inferences	80
Making graphs	56
Changing graphs	76
Using databases	80
Average	70.6

The average has changed from 67 to 70.6 with the addition of the two new assignments.

Databases

Databases contain and connect a variety of information. The Internet is a HUGE database that actually links many databases to each other.

A computer stores information in folders, like a filing cabinet. It stores information much like a **database** does. Internet Web sites are also like databases.



Schools have databases of student information. Many libraries have books entered on databases so people can find information easily and quickly. Businesses have databases that help staff track inventory and invoices.

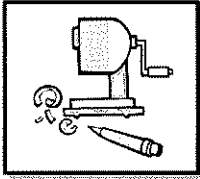
A database like the one below would be found in most schools. It would be kept in the office and used for a variety of purposes, such as attendance, marks and addresses.

Last name	First name	Grade	Room #
Benoit	Charles	7	21
Holliday	Jenny	7	19
Joti	Keith	8	17
Parmar	Harjinder	7	21
Sukhi	Sundeep	8	16

The database below is a record of one student's marks. It could belong to either the student or the teacher.

Assignment	Score	Percent
Adding integers	$\frac{20}{25}$	80%
Subtracting integers	$\frac{13}{20}$	65%
Multiplying integers	$\frac{75}{100}$	75%
Dividing integers	$\frac{14}{20}$	70%
Integer review	$\frac{36}{50}$	72%
Integer quiz	$\frac{56}{80}$	70%

The database contains the name of each assignment, the score and the mark in percent.



Practice: Spreadsheets and Databases

1. Examine the data from the database below.

Potted flowers	Price per single pot	Price per tray
Daisies	\$0.79	\$8.99
Lilies	\$2.99	\$34.99
Marigolds	\$1.79	\$18.99
Pansies	\$0.99	\$10.99
Petunias	\$1.99	\$21.99
Roses	\$9.99	\$97.00

Discuss these questions with a classmate or teacher.

1. Who would maintain a database with the above information?
 2. What information is contained within the database?
 3. Which is the least expensive single potted flower?
 4. Which is the most expensive single potted flower?
 5. Which flower tray costs \$34.99?
 6. Which single potted flower costs \$1.79?
-
2. Using the ALIS Web site (www.alis.gov.ab.ca) or other career information source, develop a list of 10 careers in which databases would be used.

Explain how a database would be used in each career.

Select three of the careers from your list and contact people who work in those careers to discuss the use of databases in the workplace.

3. Select a partner and brainstorm ways that databases are used in everyday lives.



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Practice: Spreadsheets and Databases
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Examine the data from the database on the preceding page. Discuss questions 1–6 with a classmate or teacher. Record your answers below.

1. Who would maintain a database with all the information?
2. What information is contained within the database?
3. Which is the least expensive single potted flower?
4. Which is the most expensive single potted flower?
5. Which flower tray costs \$34.99?
6. Which single potted flower costs \$1.79?

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Practice: Spreadsheets and Databases
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7. Using the ALIS Web site (www.alis.gov.ab.ca) or other career information source, develop a list of five careers in which databases would be used. (Note: This question has been changed from the original.)

Explain how a database would be used in two of the careers. (Note: This question has been changed from the original.)

8. Select a partner and brainstorm ways that databases are used in everyday lives. Write down 3 of your ideas.

