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Vocabulary: chart, data types, data validation, doctopus, flubaroo, grid, responses, scale, survey, worksheet

Hello everyone (Barbara, Bob, Connor, Jo, Lisa, Terri and Wynnette)

First part of the lesson involves one more spreadsheet skill -- taking a rectangle of numbers and generating a graph.

I have shared a document with you called Online GD Course 7 people and also given it a TINYURL. You got a notification of this document last Friday 9/27 but you can also go to it at the URL of tinyurl.com/lesson3shared and access it.

This document requires you to sign in and does not allow ANYONE TO EDIT. If you have trouble because you have two email accounts and cannot get in, let me know! It is best to sign in with your Google Drive account and then go to the tinyurl.com/lesson3shared webpage.

The video at http://www.youtube.com/watch?v=2KztYAXVEV8&feature=youtu.be will show the steps of what you have to do. Notice that there are WORKSHEET TABS on the bottom that will correspond to each of us.
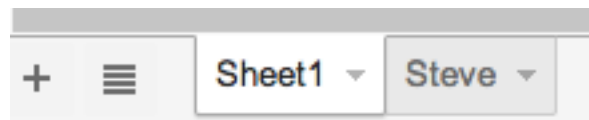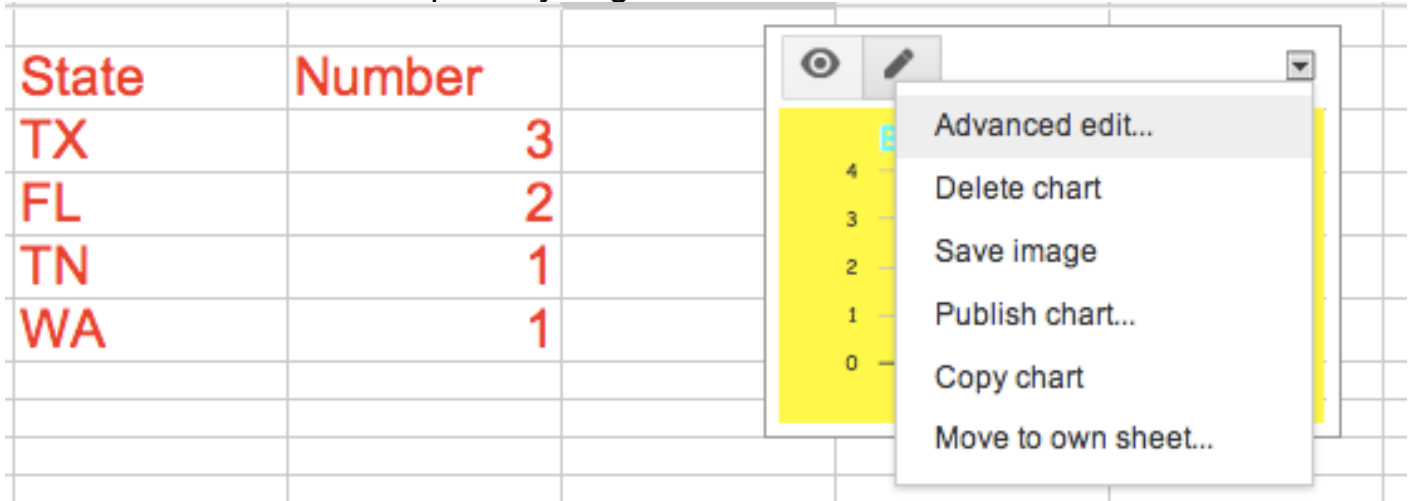

The + symbol lets you make a new TAB or new WORKSHEET and then the RENAME feature lets you give it your first name. Please create a new worksheet and then use the baby triangle next to "Sheet" to rename it with your name.

The data to graph is located on SHEET1 and so you will copy and paste the red section from sheet 1 to YOUR worksheet page. Once you highlight the data and choose INSERT CHART under the INSERT MENU, you will get something like this

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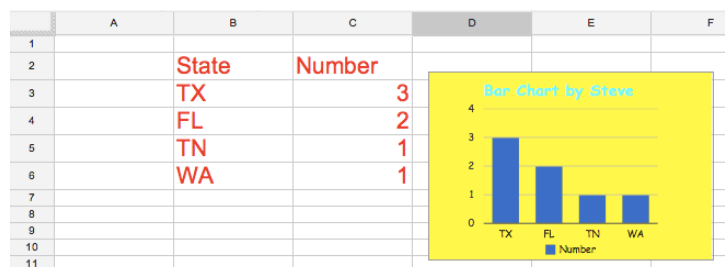
You can move the chart around by moving the mouse onto the top of the chart and getting the hand icon. You can resize by one of the bottom corners. When you click on the chart and click the pencil you get

State	Number
TX	3
FL	2
TN	1
WA	1

Advanced edit...

Delete chart

Save image

Publish chart...

Copy chart

Move to own sheet...

and go into ADVANCED EDIT mode. This lets you change the type of chart or the legend or font type or colors.

Chart Editor

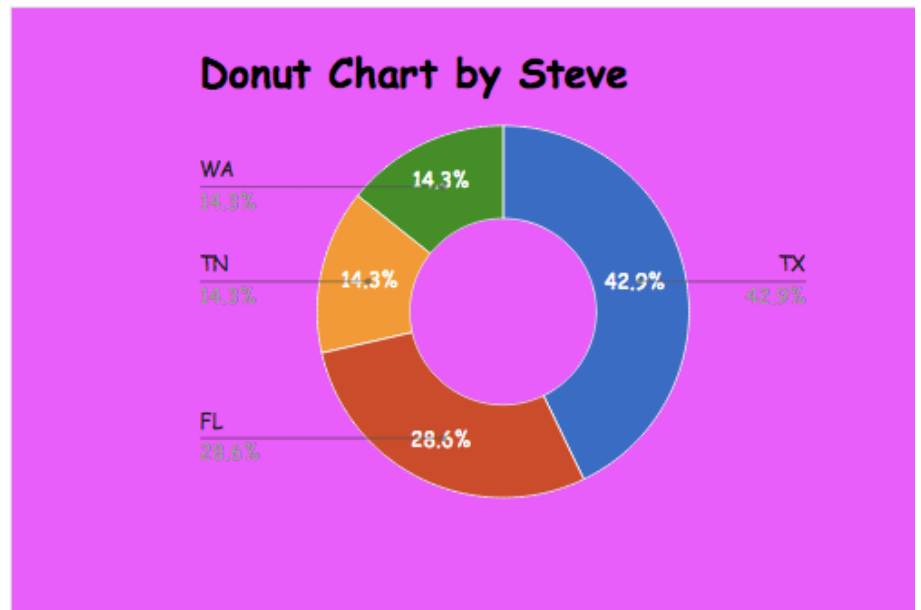Start   Charts   **Customize**

Chart

Title   **B** *I* 24   ■

Donut Chart by Steve

Legend

Labeled   **B** *I* 12   ■

Font   Comic ...

Background   ■

Slice   Percen...   12   □

Donut Chart by Steve

WA
14.3%   14.3%

TN   14.3%   42.9%   TX
14.3%   42.9%

FL
28.6%   28.6%
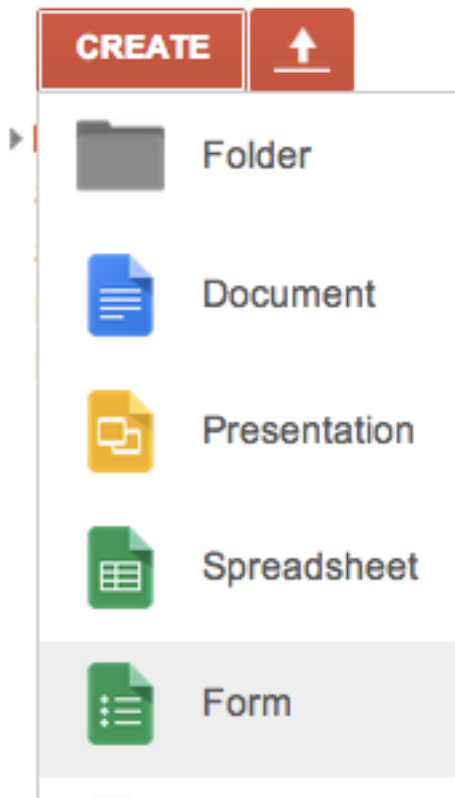
The second part of our lesson for this week involves creating a form or survey using the FORM module of Google Drive that we have ignored in previous weeks.

Once you create a FORM

you will be entering a series of questions to be part of your survey. These can be quiz questions for students or information questions to faculty colleagues or parents or community members. Regardless, the user answers your questions and the results flow into a spreadsheet on Google Drive called Responses.

The first thing you decide is the title of your FORM and what colorful template you want to use.

You can choose from these data types for each question.

Text = short text, e.g. name
Paragraph = longer text
Multiple choice and Choose from a List require the user to choose 1 out of many
Checkboxes is unique! It allows the user to more than one out of a list of choices
Scale allows the user to choose a number from 1 to what you specify
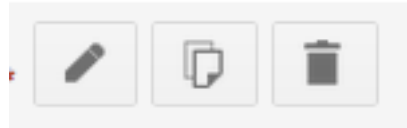Grid gives you a matrix of rows and columns with circles to fill in
Image and Video allow you to enhance your survey with pictures and videos.

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Each time you enter a question, you choose

Add item ▼
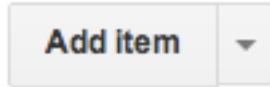
and you can add one more.

Each time you add a question, you will see this icon on the right

✏️ 📄 🗑️

The left icon (pencil) means EDIT.
The center icon means DUPLICATE so that you can make question 7 resemble question 6 without having to retype everything for example.
The right icon means DELETE this question.

One data type is the paragraph. Anything you put into the HELP TEXT will be italicized when the user sees it.

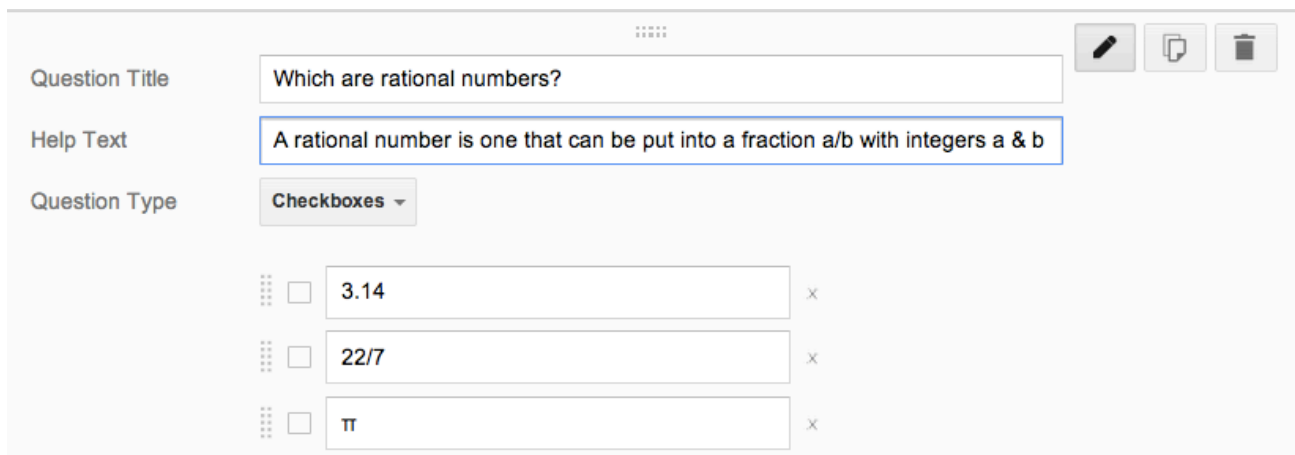| Question Title	Please use quality English to describe the difference between a rational and ir
Help Text	Please have at least 3 sentences. Please give an example or two.
Question Type	Paragraph text ▼

Their longer answer

Another data type is TEXT and it refers to short info, perhaps 2 or 3 words.
The * means the operator is required to enter something and cannot leave it blank.
This type of action is called DATA VALIDATION since the user will get a red error message if he/she tries to leave it blank.

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Fraction Survey Quiz

Form Description

What is your first name? *

This next picture shows the data type called CHECKBOX and it allows the user to specify more than one item. Below I am using it to allow the student to choose 2 of the 3 answers.
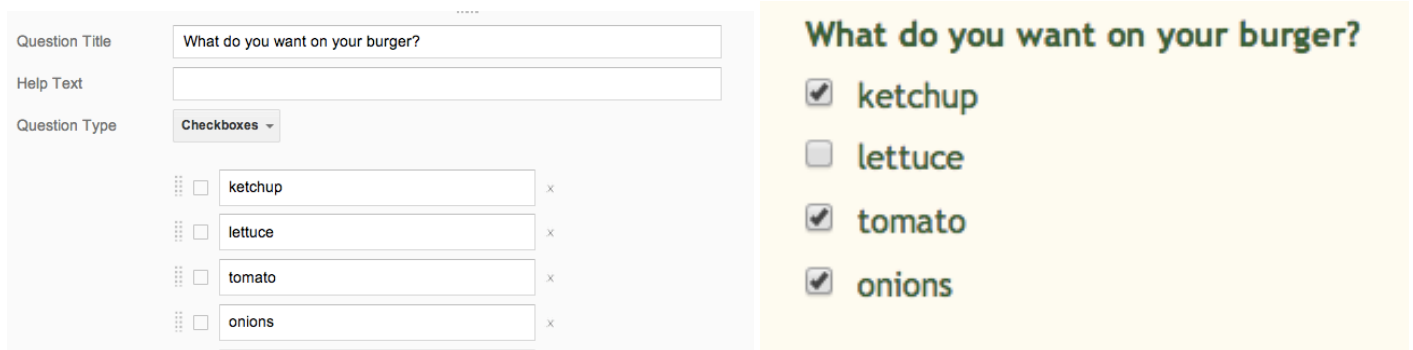
Question Title	Which are rational numbers?
Help Text	A rational number is one that can be put into a fraction a/b with integers a & b
Question Type	Checkboxes

☐ 3.14 ×

☐ 22/7 ×

☐ π ×

Here I am using it to allow the user to choice multiple items for a burger. This CHECKBOXES option is the only one of the Google data types that allows the user to indicate multiple items.
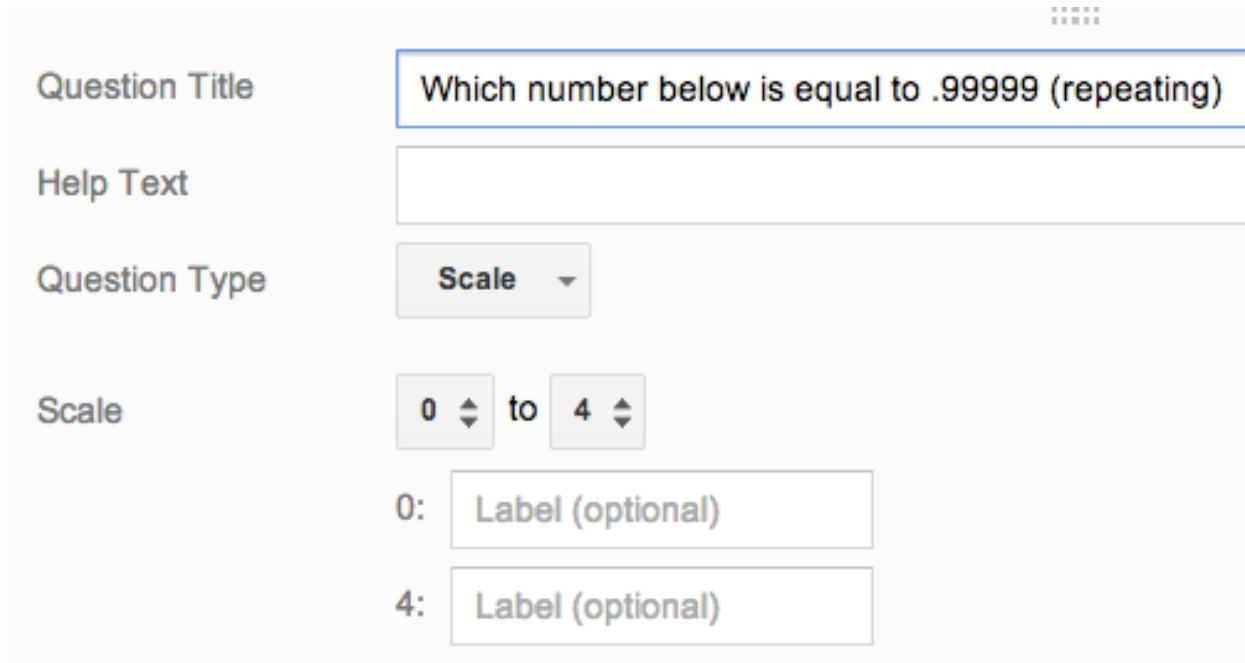
Question Title	What do you want on your burger?
Help Text	
Question Type	Checkboxes

☐ ketchup ×

☐ lettuce ×

☐ tomato ×

☐ onions ×

What do you want on your burger?

☑ ketchup

☐ lettuce

☑ tomato

☑ onions

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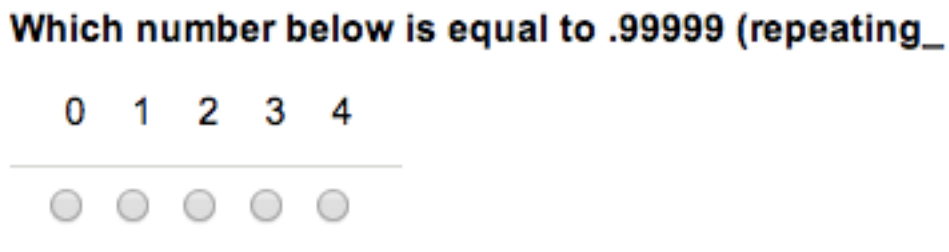
This next picture is the SCALE type

Question Title	Which number below is equal to .99999 (repeating)
Help Text	
Question Type	Scale ▾
Scale	0 ⬍ to 4 ⬍
	0: Label (optional)
	4: Label (optional)

and results in

Which number below is equal to .99999 (repeating_

0 1 2 3 4

○ ○ ○ ○ ○

The scale can go up to 10 and not 33. How sad. Maybe the Google people will revise it to go up to 33 in their next update ;-)

The GRID type results in a clever rectangle of choices where you control the row and column headings.

Classify each number as rational or irrational *

	Rational	Irrational	Not sure
1/3	○	○	○
.232323	○	○	○
π / 2	○	○	○
.2323 (repeating)	○	○	○

One of the newest features is called DATA VALIDATION and this means you can give error messages (in red) to the user if the answer does not meet certain criteria.

▼ Data validation
✓　Regular expression ▾　Contains ▾　rational　　　Whoops! Please use the word rational

By the way, there are now programs and add-ons that will do automatic grading of answers on a Google spreadsheet. One of them is called FLUBAROO (www.flubaroo.com) and one is called DOCTOPUS (many links including http://ipadsandbox.wikispaces.com/file/view/jlGoogleDoctopus.pdf). There is also a program called GOOBRIC that adds rubric features to doctopus. If this topic interests you, I would love to help you individually! The grading works by having the teacher submit a form with the correct answers and the computer then compares each student's entries with the correct answers. Obviously multiple choice and short answer questions work best.

Homework Summary
Assignment 3A: Read this handout

Assignment 3B: Watch these videos in connection with the reading which makes much more sense than just watching all of them in a row

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Making a Chart (3 min)
http://www.youtube.com/watch?v=2KztYAXVEV8&feature=youtu.be
Google Forms Part I (16 min)
http://www.youtube.com/watch?v=eZeSeaTbeSw&feature=youtu.be
Google Forms Part II (8 min)
http://www.youtube.com/watch?v=XLisPLZd_Zo&feature=youtu.be

Assignment 3C: Schedule a 30 minute phone call or skype with me

Assignment 3D: A few new things to contribute/modify to our WIKI this week located at the tinyurl.com/sconlinegd webpage.

Assignment 3E: Make a worksheet TAB on the spreadsheet I shared with you.

Remember that the worksheet is at tinyurl.com/lesson3shared and the associated video is at http://www.youtube.com/watch?v=2KztYAXVEV8&feature=youtu.be

Assignment 3F: Create a FORM that has some personal, educational or professional potential real usage. Try if possible to have at least one question of each data type. Send the URL to me so that I can test your form and be one of "your customers" Be careful with the URL. You are not sending me the URL where you create the form. You are sending me the URL that you see when you choose VIEW LIVE FORM. If your school's domain is protected, you might see a checkbox that says "allow others outside of your domain to access this form."

Have a good week,

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