

Use Excel or Google Sheets to determine a budget. It must have at least four categories, of which one must be Savings.

[Learn more about TechnoBudget](#)

My Budget

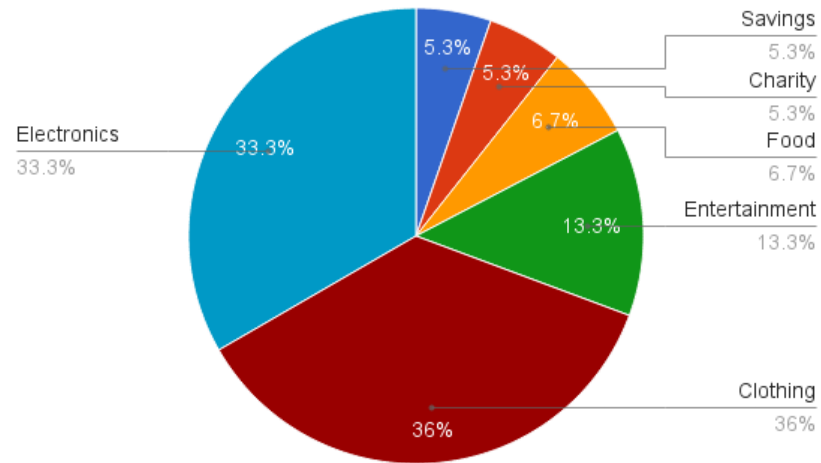
Categories	Amount
Savings	\$40.00
Charity	\$40.00
Food	\$50.00
Entertainment	\$100.00
Clothing	\$270.00
Electronics	\$250.00
TOTAL	\$750.00

Format cells so data is easy to read.

Use AutoSum

Graph budget and format pie chart.

Budget Categories



Visit online stores. Organize purchasing decisions in a spending table. Use formulas to calculate taxes and track totals.

Spending Table

Category	Item	Store	Cost	Tax	Total	Hyperlink
charity		Pet Shelter	\$40.00	\$0.00	\$40.00	
clothing	hat	Hat Shop	\$29.99	\$4.50	\$34.49	www.hats.com/item
clothing	sweater	Clothes City	\$39.99	\$6.00	\$45.99	www.clothes.ca/item
clothing	sweatshirt	Sports Town	\$49.95	\$7.49	\$57.44	www.sports.net/item
clothing	jeans	Jeans R Us	\$69.99	\$10.50	\$80.49	www.jeans.com/item
electronics	music system	Best Sound	\$249.99	\$37.50	\$287.49	www.bestsound.com/sale
entertainment	movies	Movie Show	\$24.99	\$3.75	\$28.74	www.movies.com/deals
entertainment	laser tag	Laser Fun	\$59.00	\$8.85	\$67.85	www.laserfun.com/pricing
food	sandwich	Super Subs	\$12.00	\$1.80	\$13.80	www.subs.com/menu
food	pizza	Pizza Plus	\$23.00	\$3.45	\$26.45	
savings	savings	Techno Bank	\$67.26	\$0.00	\$67.26	
Grand Total			\$750.00			

Merge cells

Sum grand total

Sum totals

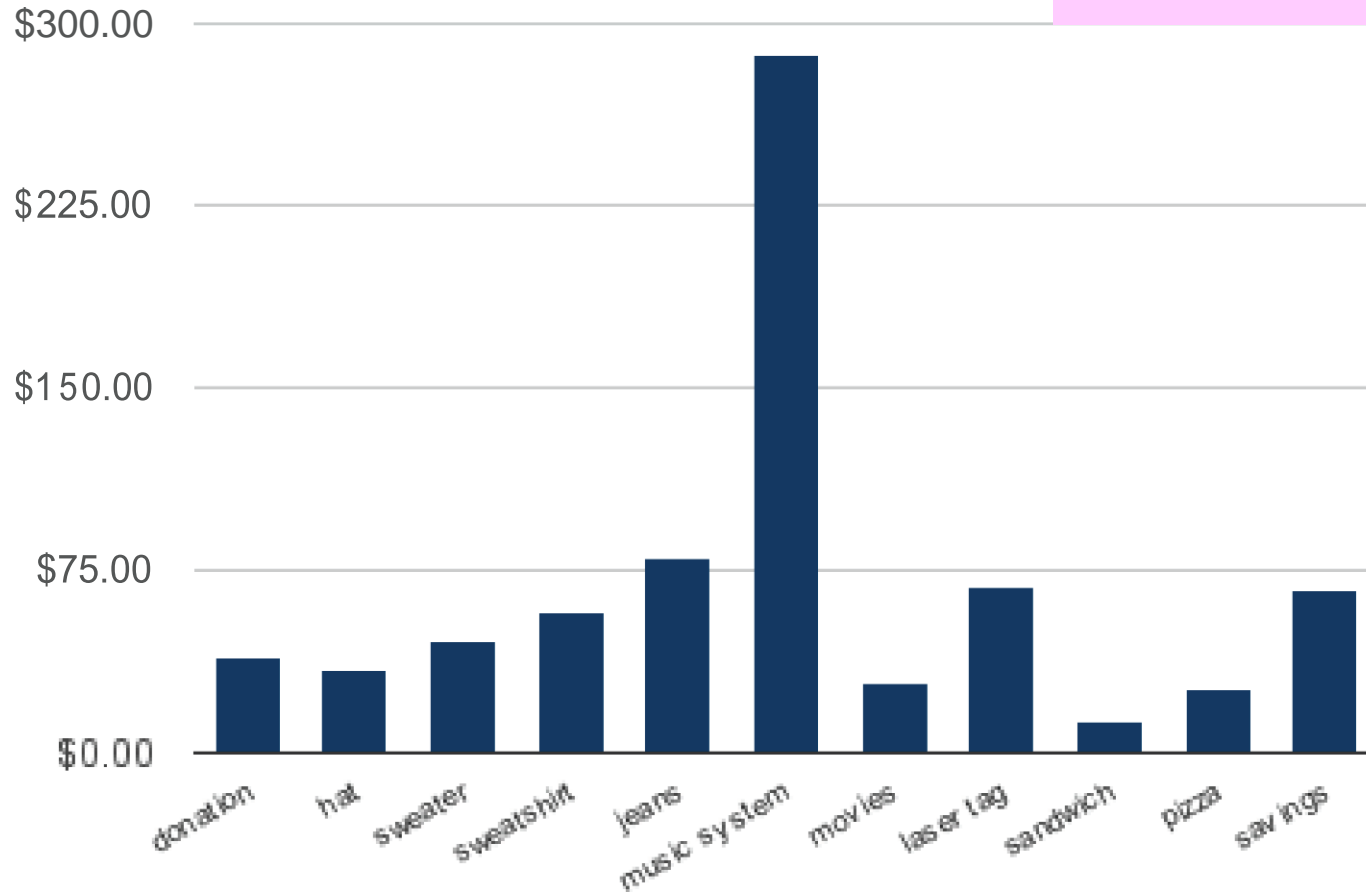
Multiply to calculate taxes

Use Auto Fill to copy formulas.

Use Sum feature to track running totals for each category.

Spending Plan

Create a bar graph to summarize spending plan. Analyze decisions.



Items

Format title, horizontal axis, vertical axis, legend, and data labels.

Extension Activity 1 has students compare purchasing options. They research to find two other stores with the same or a similar item. Tips are provided to help students select the best deal.

Copy and paste data from one sheet to another.

Comparison Shopping						
Item	Store	Cost	Tax	Total	Hyperlink	Comments
pizza	Pizza Plus	\$23.00	\$3.45	\$26.45	www.pizza.com/menu	
pizza deal	Pizza Town	\$24.99	\$3.75	\$28.74	www.pizzatown.com/deals	free pop
pizza supreme		\$8.99	\$2.85	\$21.84	www.pizzapie.com/menu	same size, more toppings

This is the best deal because it is the same size pizza with more toppings for less money.

Add a note or comment to identify best deal and justify reasoning.

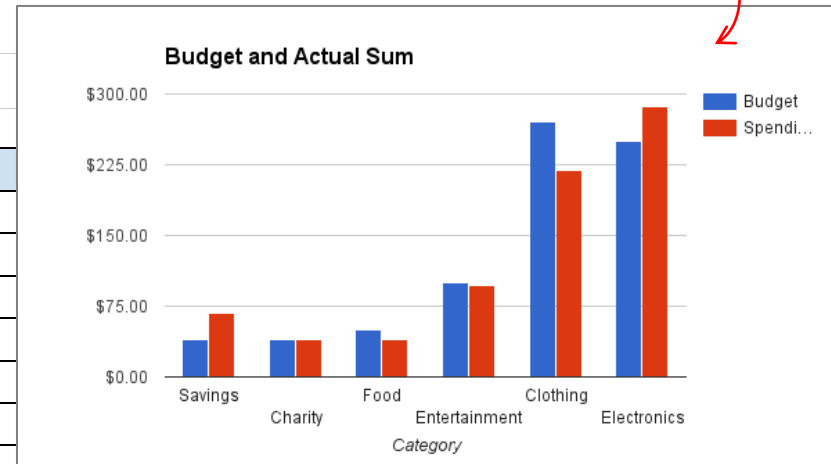
Record the difference between the items.

Extension Activity 4 has students compare their budget with the actual plan to notice where they adjusted their spending. Formulas include workbook cell addresses, absolute cell references, and SUMIF.

Make a comparison graph.

Category Comparison

Category	Budget	Spending Plan
Savings	\$40.00	\$67.26
Charity	\$40.00	\$40.00
Food	\$50.00	\$40.25
Entertainment	\$100.00	\$96.59
Clothing	\$270.00	\$218.41
Electronics	\$250.00	\$287.49



Category	Budget	Spending Plan
=Budget!A4	=Budget!B4	=sumif(Plan!A\$5:A\$16, "savings", Plan!F\$5:F\$16)
=Budget!A5	=Budget!B5	=sumif(Plan!A\$5:A\$16, "charity", Plan!F\$5:F\$16)
=Budget!A6	=Budget!B6	=sumif(Plan!A\$5:A\$16, "food", Plan!F\$5:F\$16)
=Budget!A7	=Budget!B7	=sumif(Plan!A\$5:A\$16, "entertainment", Plan!F\$5:F\$16)
=Budget!A8	=Budget!B8	=sumif(Plan!A\$5:A\$16, "clothing", Plan!F\$5:F\$16)
=Budget!A9	=Budget!B9	=sumif(Plan!A\$5:A\$16, "electronics", Plan!F\$5:F\$16)

The SUMIF formula totals a value if specific conditions are met.

This formula displays data from the Budget sheet using cell addresses.

This formula uses absolute cell references (\$) to copy a formula without changing the cell range.

Understand Debt				
Balance	\$750			
Interest Rate	10%			
Fixed Monthly Payment	\$100			
Number of Months	Payment	Interest Paid	Principal Paid	Balance
0				\$750
1	\$100	\$6	\$94	\$656
2	\$100	\$5	\$95	\$562
3	\$100	\$5	\$95	\$466
4	\$100	\$4	\$96	\$370
5	\$100	\$3	\$97	\$273
6	\$100	\$2	\$98	\$176
7	\$100	\$1	\$99	\$77
8	\$100	\$1	\$99	-\$22

Number of Months	Payment	Interest Paid	Principal Paid	Balance
0				=B3
			=B9-C9	=E8-D9
			=B10-C10	=E9-D10
			=B11-C11	=E10-D11
			=B12-C12	=E11-D12
=A12+1	=\$B\$5	=\$B\$4/12*E12	=B13-C13	=E12-D13
=A13+1	=\$B\$5	=\$B\$4/12*E13	=B14-C14	=E13-D14
=A14+1	=\$B\$5	=\$B\$4/12*E14	=B15-C15	=E14-D15
=A15+1	=\$B\$5	=\$B\$4/12*E15	=B16-C16	=E15-D16

This is what the formulas look like in the spreadsheet program.

Extension Activity 5 has students develop an understanding about credit and debt by calculating repayment terms using formulas in Google Sheets or Excel Online.

Formulas are written to calculate how long it would take to pay back \$750 with an interest rate of 10% and fixed payments of \$100. Once the table is created the balance, interest rate, and fixed monthly payment can be adjusted to learn more about debt.