4565: Computing Foundations for a Digital Age Unit 4

## **Candy Data Collection Form**

ıp Members:	:		
ер 1: Collect Г	<b>Data</b>		
• Total Weigl	ht of <b>unop</b> o	ened bag of candy:	
• Sort the car	ndy into gro	oups. (Ex: same type or fl	lavor)
ow many of each	ı type:		
Candy Type	Count	Weight of one piece	Count x Weight of 1 piece =
	Tot	al Weight (add last column)	
<ul> <li>Does vour t</li> </ul>	otal weight	match the weight of the	weight you wrote for #1?
-	t they be dif	_	
ep 2: Analyze	Data		
		t	
• Which cand	ly type is lea	ast common?	
	entage of the	e total sample is each can	dy type? (Show calculation
below)			

## Step 3: Visualize Data

• Create a **bar chart** or **pie chart** to represent your data.

## **Step 4: Create a Spreadsheet**

- Use Google Sheets/Excel to create a spreadsheet of your data.
- Set up your spreadsheet to match the table you created in STEP 1.
- Use formulas to figure the amounts for you. (See formulas below)

Example of how to use formulas:

Candy Type	Count	Weight of one piece	Count x Weight of 1 piece =
B2	C2	D2	=SUM(C2*D2)
В3	С3	D3	=SUM(C3*D3)
В4	C4	D4	=SUM(C4*D4)
В5	C5	D5	=SUM(C5*D5)
В6	C6	D6	=SUM(C6*D6)
В7	C7	D <sub>7</sub>	=SUM(C7*D7)
Total Weight (add last column)			=SUM(E2:E7)

- Which was easier for you? Calculating on paper OR Using formulas
- Use Sheets/Excel to create a graph of your chart.

## **Bonus Challenge:**

Combine classroom data and make predictions on what another bag might contain. Predict the candy distribution in a different sample.

Test your prediction by collecting and analyzing a new sample.

How close were your predictions?

