

Congratulations, you're a CEO! You now run a 10 person company and the first thing you need to do is set salaries for your employees!

The salaries must sum to \$1 million dollars total.

Employees	Salaries (thousands of \$)
The Boss (You)	
Employee 1	
Employee 2	
Employee 3	
Employee 4	
Employee 5	
Employee 6	
Employee 7	
Employee 8	
Employee 9	

1. Write the story of your budget choices here. Why did you choose the salaries you did? Feel free to give your employees job titles and descriptions to justify their salaries. (Some ideas for employee titles: CFO, COO, VPs, Mid-level Managers, Project Leads, Sales Associates, Assistants, Interns).

2. Now, create a dot plot of your data! Use [Stapplet](#) (examples [here](#)) and take a screenshot of your dotplot and paste it below.

- a. What are some advantages to using a dot plot? What are some disadvantages?

3. Next, create a stemplot of your data using [Stapplet](#) and take a screenshot of your stemplot.

4. What are some advantages to using a stemplot? What are some disadvantages?

5. Now, create a histogram of your data in stapplet.

6. First, organize your data and create a relative frequency table.
Feel free to use the categories below or change the range to better match your data.

Salary	Frequency	Relative Frequency
20-29		
30-39		
40-49		
50-59		
60-69		
70-79		
80-89		
90-99		
100-109		
110-119		
Total	10	100%

Why is it useful to group data values?

Paste your graph below:



Finally, create a boxplot of your data!
 You may draw this on your whiteboard and insert an image
 or use [Stapplet](#) and take a screenshot of your boxplot.

List all ten data points in order from least to greatest. Identify your five-number summary.

Determine if your data set has any outliers. Show your work using the formula for outliers.

Paste your boxplot below:

What are some advantages to using a boxplot? What are some disadvantages?

"Describe the distribution..."

Context – What variable is being measured?

Shape – Right/left skew, symmetric, modes

Outliers – Unusual points

Center – Mean, median, general center

Spread – Range, IQR, standard deviation

Describe your distribution of salaries:

Context:

Shape:

Outlier:

Center

Mean:

Median:

Spread

Range:

IQR:

StDev:

Put it all together in a short paragraph.



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Material adapted from the Skew The Script curriculum (skewthescript.org)

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Skew The
Script

How would you describe your company if you were trying to convince someone to work for you? Which measures of SOCS would you highlight? What might you exclude?

How would you describe your company if you were its competition, trying to convince someone not to work there? Which measures of SOCS would you highlight? What might you exclude?

Compare your distribution to a classmate's using CSOCS. Paste one of their graphs below. How do the shapes compare? Whose spread is larger? Whose median salary is higher?

Is your company fair? Would you want to work there if you weren't the boss?

