



Task

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Observations and Assumptions

This session shows the assumptions adopted during the analysis

Results

This shows the results and the interpretation deduced from the survey.

Conclusions

This session summarises the survey results.

Recommendations

This shows the recommendations

Observations and Assumptions

1. From the two different datasets, while it made sense to do a difference between the pre and post survey to observe the increase or decrease in the impact, for the purpose of data analysis and data presentation, it is recommended that each event/observation be treated independently of each other, that way, it is easier to make deductions.
2. I couldn't tell the total number of unique respondents from the data, this is because the user id column which is supposed to be a unique identifier had duplicates and a lot of missing numbers.
3. The assumptions that were made during the analysis of the **BEFORE** and **NOW** survey, I thought about grouping the data into groups of tens to optimise the data interpretation, but the approach I adopted was to highlight the **top 5** responses from the use of numbers.
 - This meant that a lot of other numbers and impressions were left out; and because of the data irregularities in the user id column, the number of samples analysed could not be stated in this report.

A graphic of a spiral-bound notebook with a white page, orange cover, and two sticky notes (yellow and orange) on the left. The page contains the text '01 Results Highlights of the survey results...'.

01

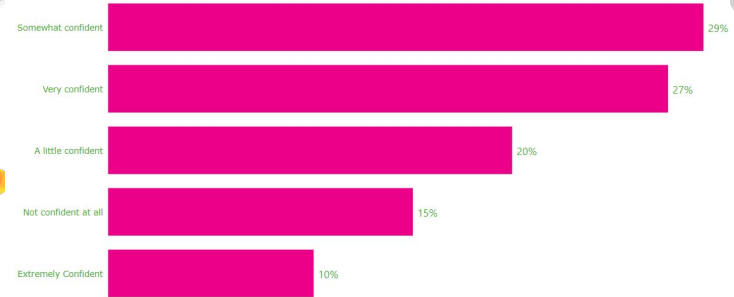
Results

Highlights of the survey
results...

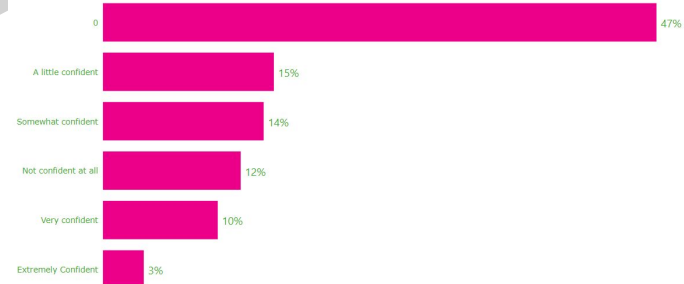
Results

- **47%** of the respondents did not respond to having any knowledge of programming languages before the training.
- However, after the programme, only **15%** did not feel confident in their programming language.

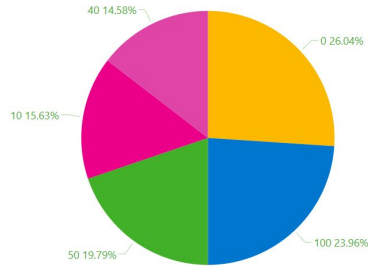
Computer Programming in other languages (Swift, Java, Python etc.) Post



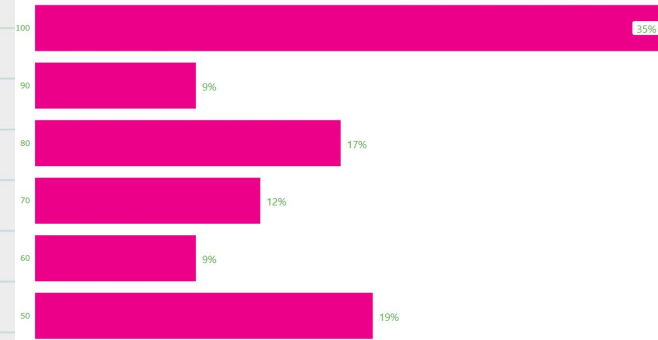
Computer Programming in other languages (Swift, Java, Python etc.) Pre



How confident did you feel about coding/programming
BEFORE THIS SEASON?



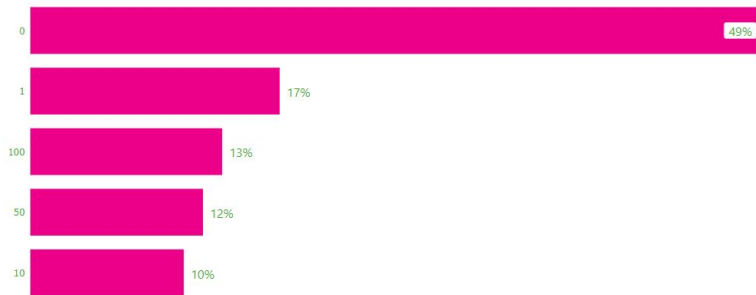
How confident do you feel about coding/programming
NOW?



- There is an 11.04% increase in the number of girls that indicated 100 as their confidence level in coding and programming.

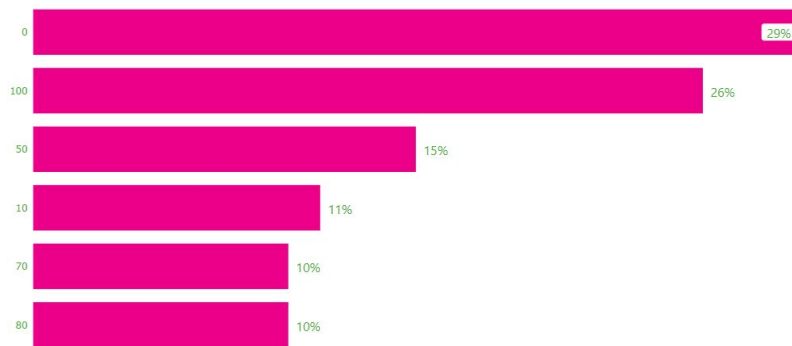
This shows
the training
done had
some level
of impact.

How confident were you in computer programming in other languages (Swift, Java, Python, etc.) before this season of Technovation Girls?



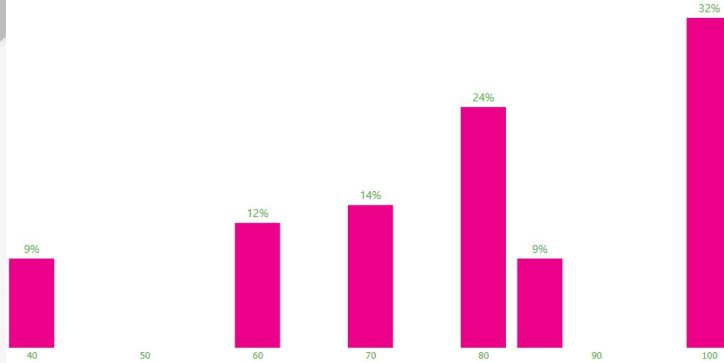
There is a **20%** decrease from **49%** in the number of girls that selected 0.

How confident are you in computer programming in other languages (Swift, Java, Python, etc.) now?

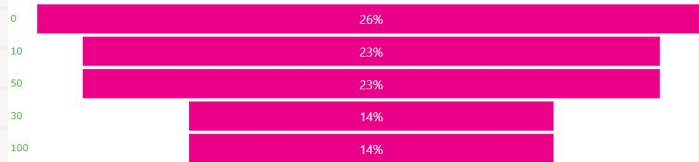


There is a significant learning gain, because of the higher level of confidence scores after the training

Do you know how to start a business NOW?

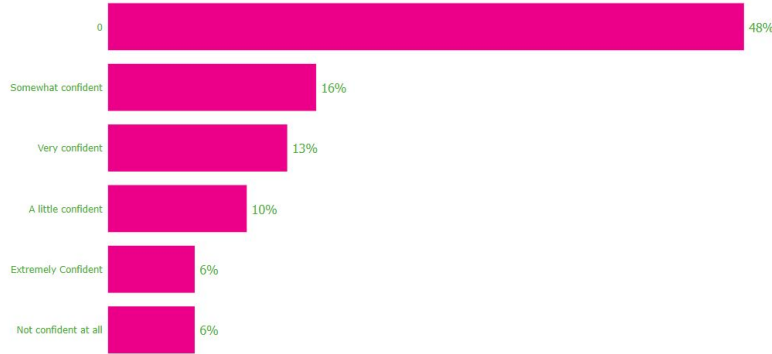


Did you know how to start a business BEFORE THIS SEASON?



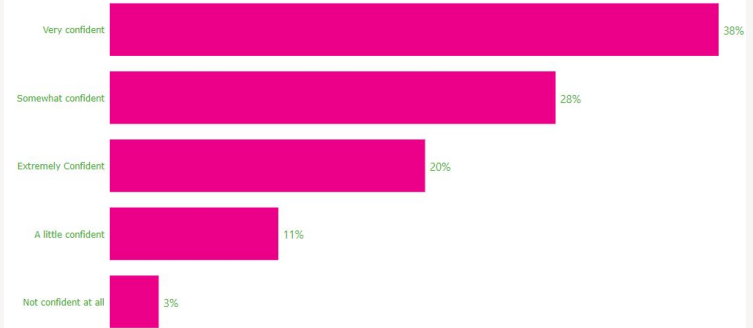
- **32%** people learned about how to start a business after the training opposed to **14%** people that indicated 100 as their knowledge level.
- **26%** knew nothing about starting a business before the training.
- 0, 10, 30 and 50 were the most responses about knowing how to start a business before the training.
- After the training the lowest threshold was 40 being **9%**.
- Thereby indicating an increase.

Building and managing a business (Pre)



This shows that **48%** of girls were not confident and **13%** were very confident about building and managing a business before the program.

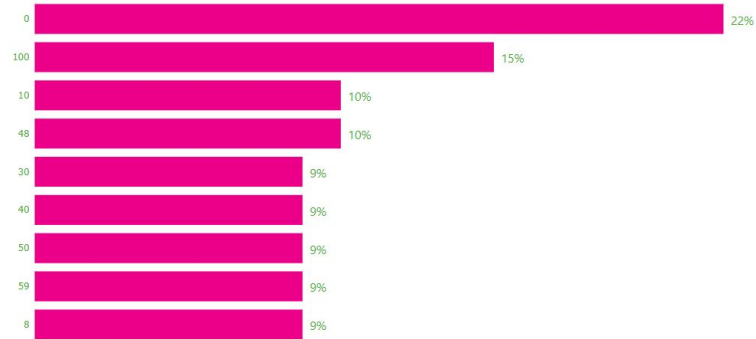
Building and managing a business (Post)



After the training, **38%** of the girls were very confident in their abilities to build and manage a business and **3%** of the girls have no confidence.

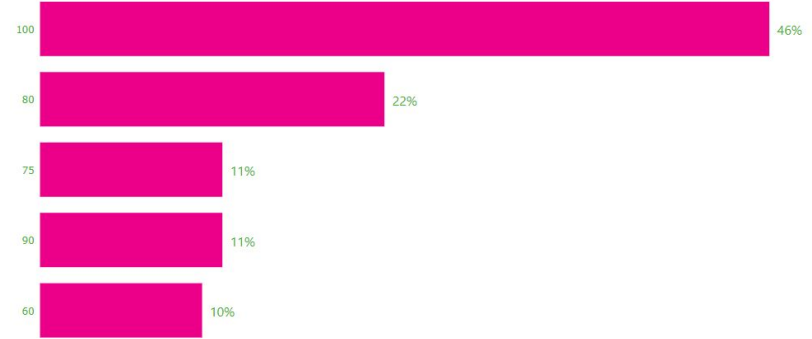
Thereby indicating significant learning gain.

How confident were you in building and managing a business before this season of Technovation Girls?



It is not clear to spot the number top 5 responses, however, **15%** of the girls indicated 100 as their confidence level before the training.

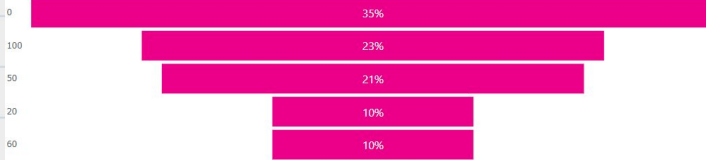
How confident are you in building and managing a business now?



46% of the girls feel more confident about building and managing the business after the training.

Therefore, a higher learning gain.

How confident do you feel about training a machine learning model NOW?



35%

Indicated 0 as their confidence level after the training.

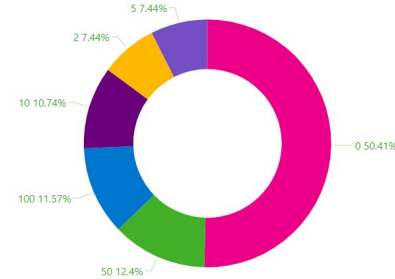
50.4%

Indicated 0 as their confidence level before the training

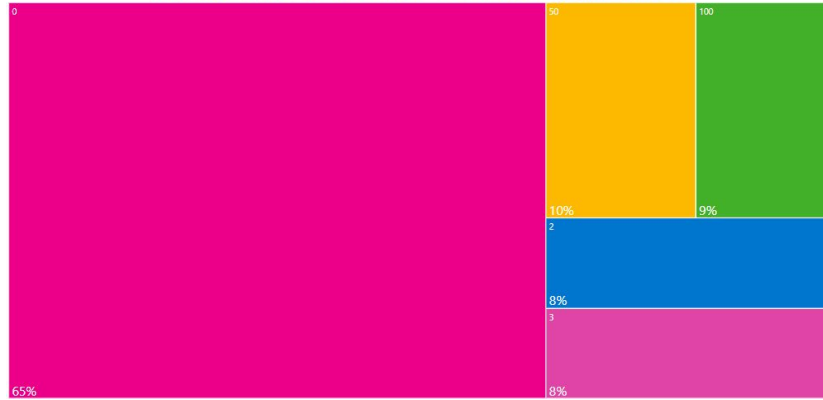
15.4%

Decrease in the number of girls that indicated 0 as their confidence level in training a machine learning model.

How confident did you feel about training a machine learning model BEFORE THIS SEASON?

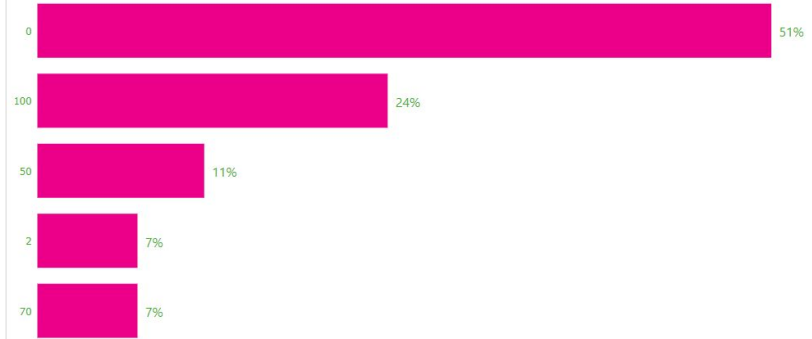


How confident were you in creating and training an AI model before this season of Technovation Girls?



65% of the girls indicated 0 as their confidence level before the training and 51% indicated 0 as their confidence level after the training.

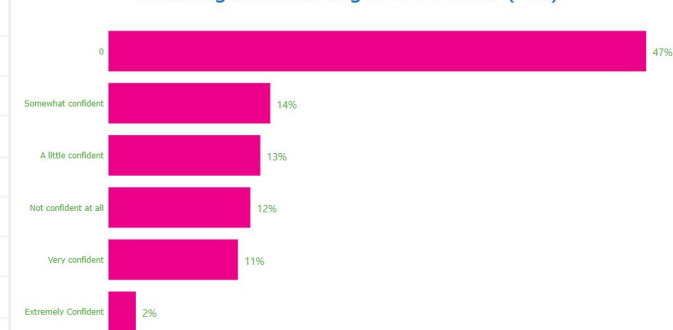
How confident are you in creating and training an AI model now?



While this shows a 14% decrease in the confidence level that indicated 0, there is not much significant learning gain.

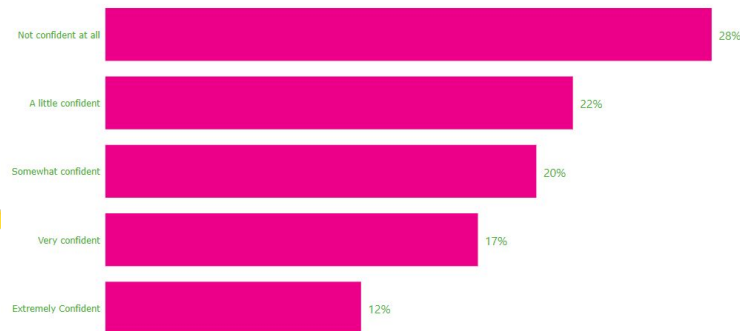
There is no much significant learning gain

Creating and training an AI model (Pre)



2% indicated that they were extremely confident in creating and training an AI model before the training.

Creating and training an AI model. (Post)



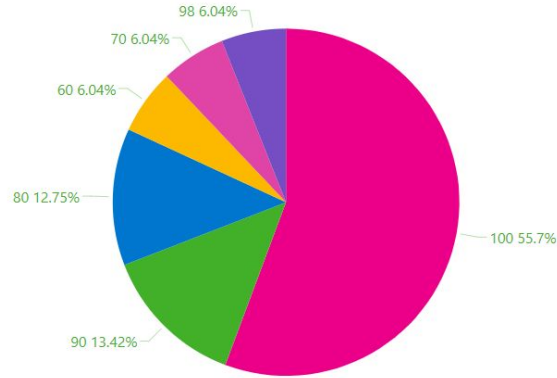
10%

Increase in the confidence level after the training

28%

Indicated not having any confidence after the training.

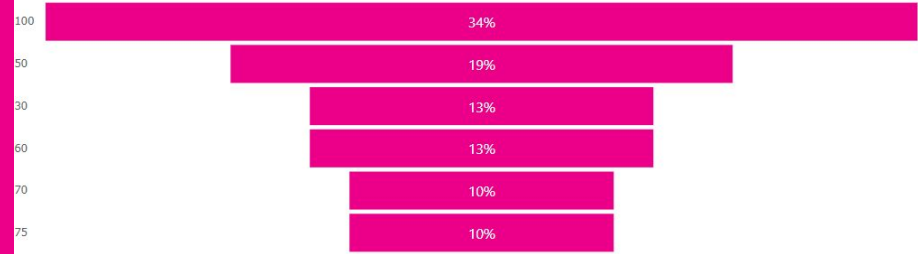
Do you know how to choose a problem to solve in the community NOW?



55.7%

Learned about about how to choose a problem to solve a problem in the community.

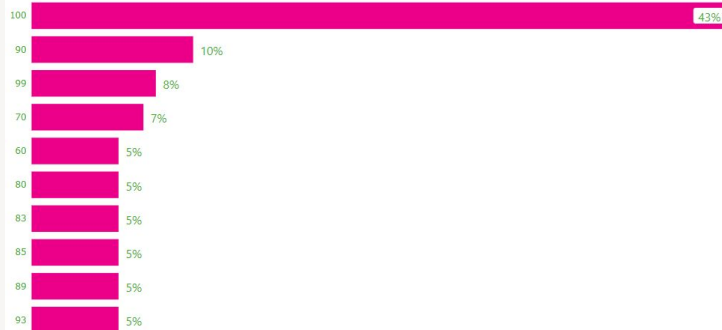
Did you know how to choose a problem to solve in the community BEFORE THIS SEASON?



34%

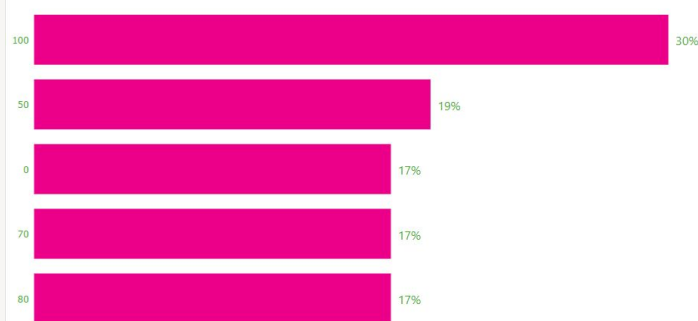
Did not know how to choose a problem to solve in the community before the training.

How confident are you in making an impact on the community now?



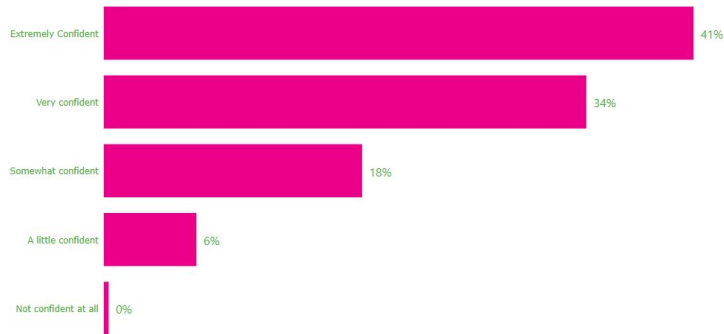
43% girls indicated 100 as their confidence level to making an impact in the community compared to 30% who indicated same before the training.

How confident were you in making an impact on the community before this season of Technovation Girls?

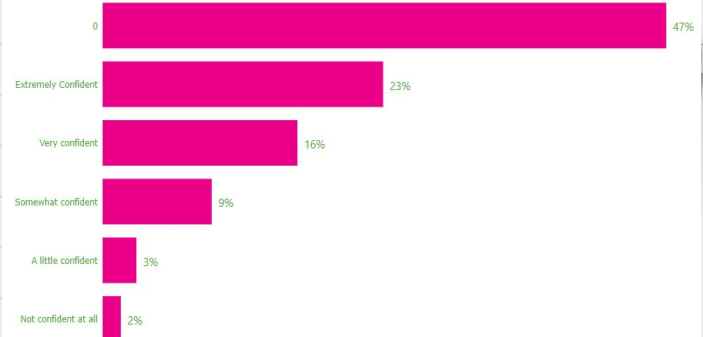


There was a significant learning gain.

Making an impact on the community (Post)

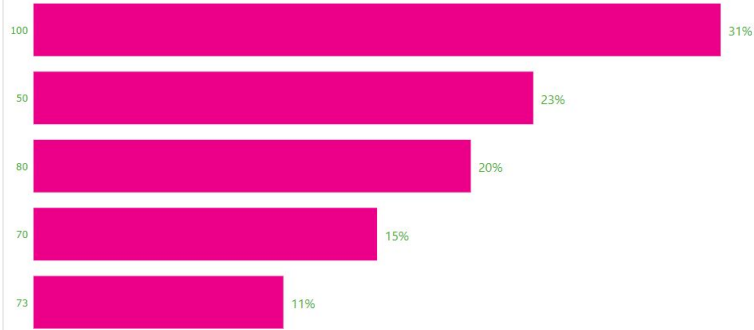


Making an impact on the community (Pre)



More girls indicated that their confidence level increased. There was also a 47% decrease in the number of girls that did not indicate to having any confidence after the training.

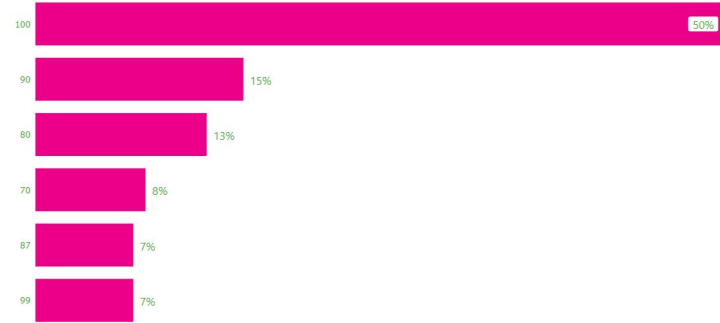
How confident were you in problem solving before this season of Technovation Girls?



19%

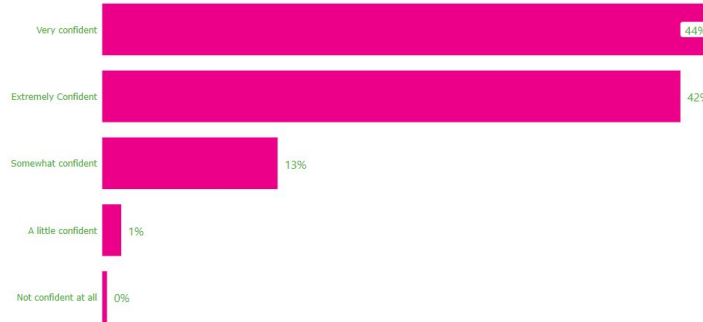
More girls indicated 100 as their confidence level.

How confident are you in problem solving now?

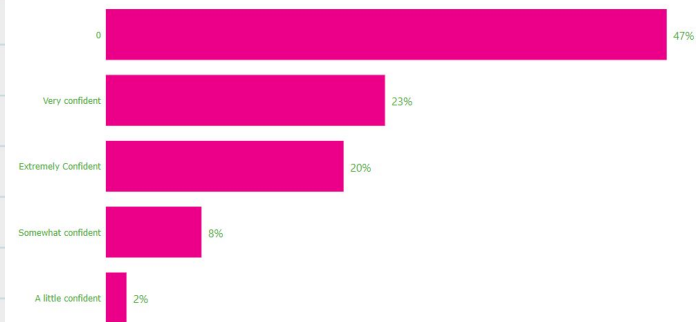


The confidence level scores also increased after the training.

Problem solving (Post)

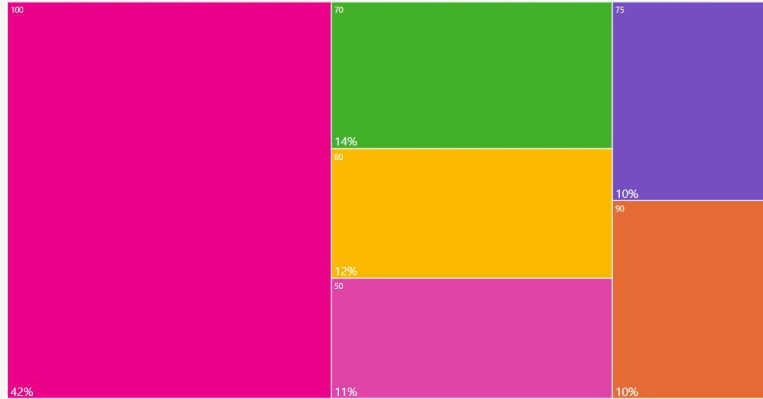


Problem solving (Pre)



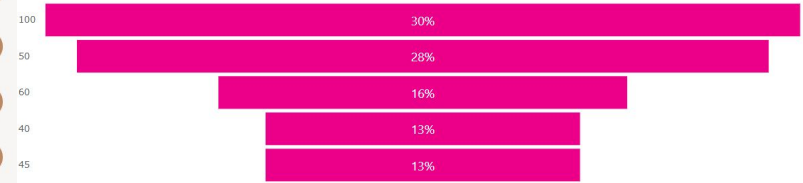
1% indicated to having a little confidence after the training thereby showing significant learning gain from 47% who did not indicate to having any confidence level on problem solving before the training.

Do you know the best way to solve a problem NOW?



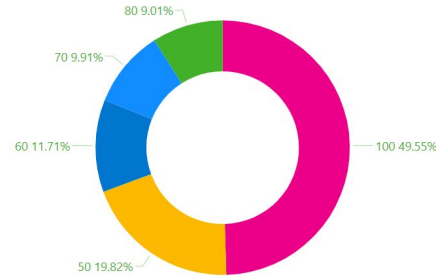
The confidence score 100 increased from 30% to 42% after the training.

Did you know the best way to solve a problem BEFORE THIS SEASON?



Higher confidence scores were recorded after the training.

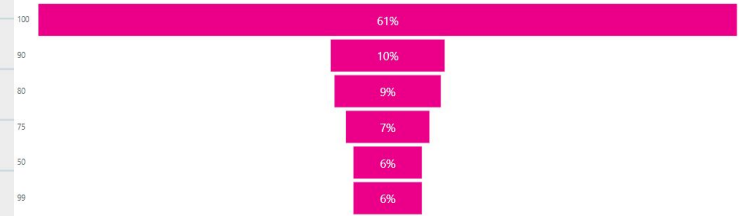
Did you know how to work together in a team BEFORE THIS SEASON?



49.55%

Had 100 as their
confidence scores
before the training

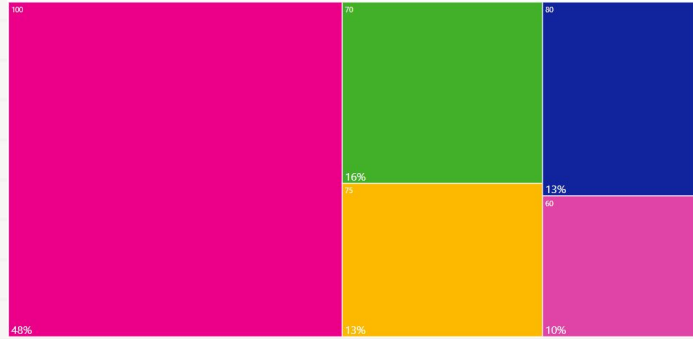
Do you know how to work together in a team NOW?



61%

Became more confident
after the training
with the same score of
100

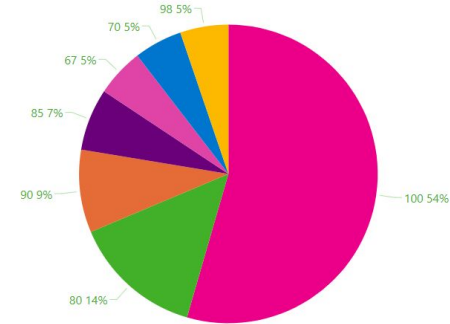
How confident were you in working on a team before this season of Technovation Girls?



48%

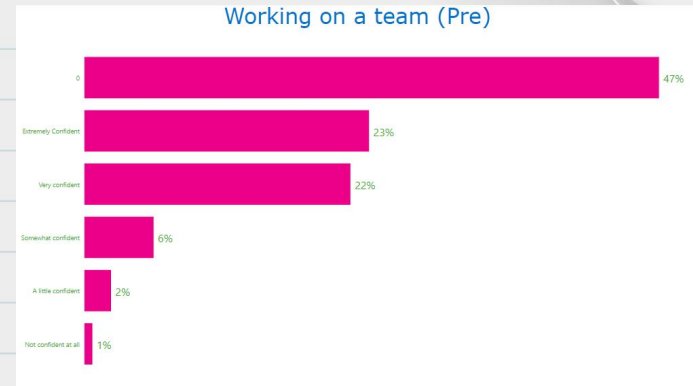
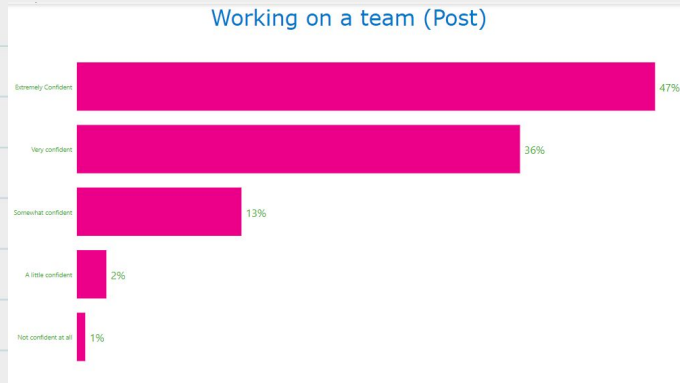
Had 100 as their confidence scores before the training

How confident are you in working on a team now?



54%

Became more confident after the training with the same score of 100



47% girls indicated to becoming extremely confident in working in a team after the training whereas the same number did not indicate to having any confidence before the training. Thereby showing a great learning gain.



Conclusions

1. There is no **significant difference** between the two surveys as they both had similar results.

Recommendations

1. I recommend that the **pre/post** survey be adopted for survey purposes because every respondents opinion is taken into observation.
2. Little or no data is lost during analysis.
3. It reduces assumptions.

[Link to reports](#)

Thanks!

Do you have any questions?



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[Website](#)

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