

Statistics Term Project

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Math 1040-007

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Do the number of passengers booked for a flight on a CRJ200 aircraft relate to how long it takes to board?



I'm a Flight Attendant for SkyWest Airlines 😊



- I've been flying for 9 yrs
- SkyWest operates 4 different types of aircraft

The SkyWest Fleet

Embraer EMB-120 Brasilia



Canadair Regional Jet 200



The SkyWest Fleet

Canadair Regional Jet 700



Canadair Regional Jet 900



Simple Random Sample Test

- CRJ 200 holds maximum 50 passengers
- I typically work 4 days a week and between 8 -12 flights a week
- SkyWest operates 1,750 flights per day which equals to 12,250 flights per week!

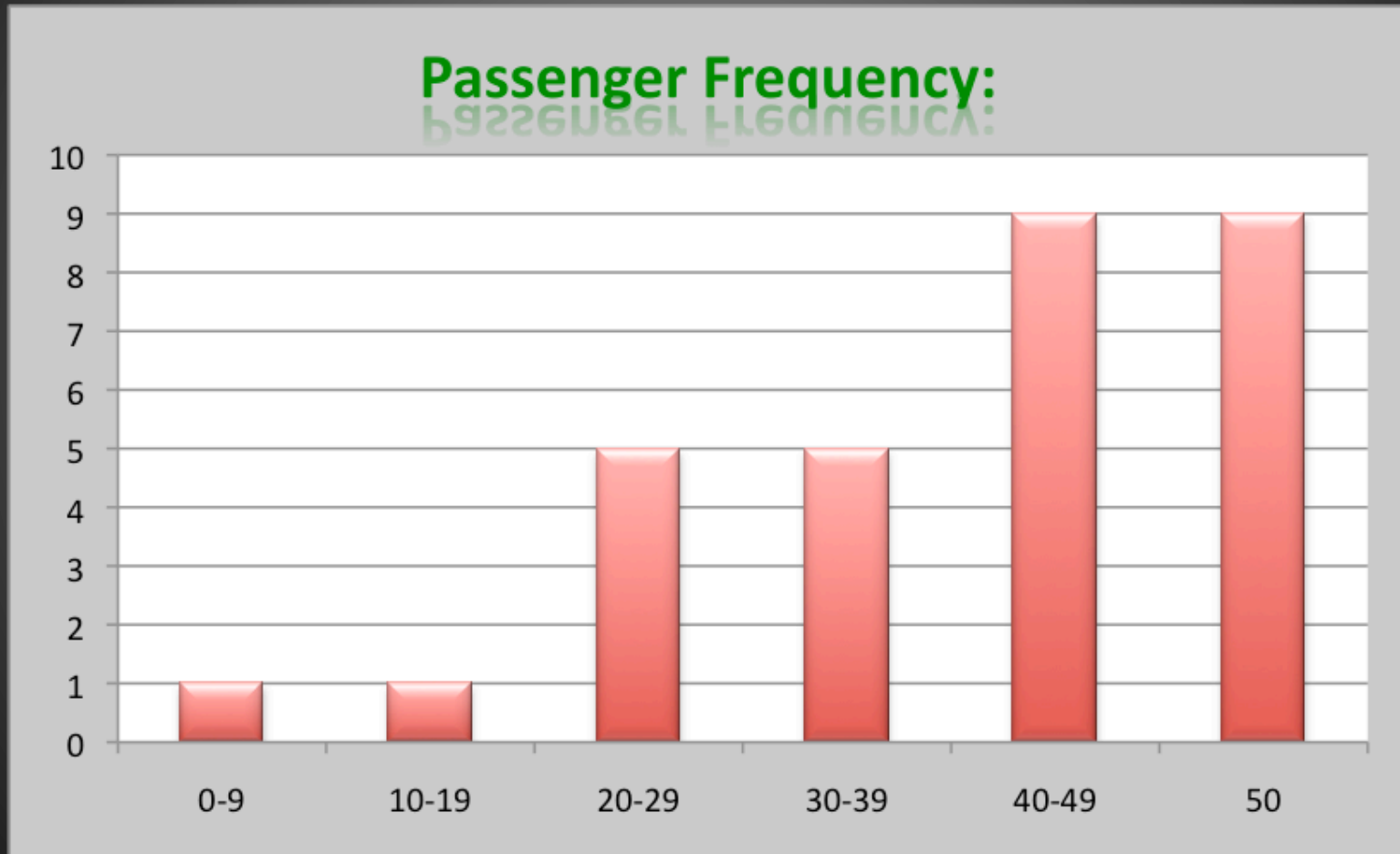


How I collected my data:

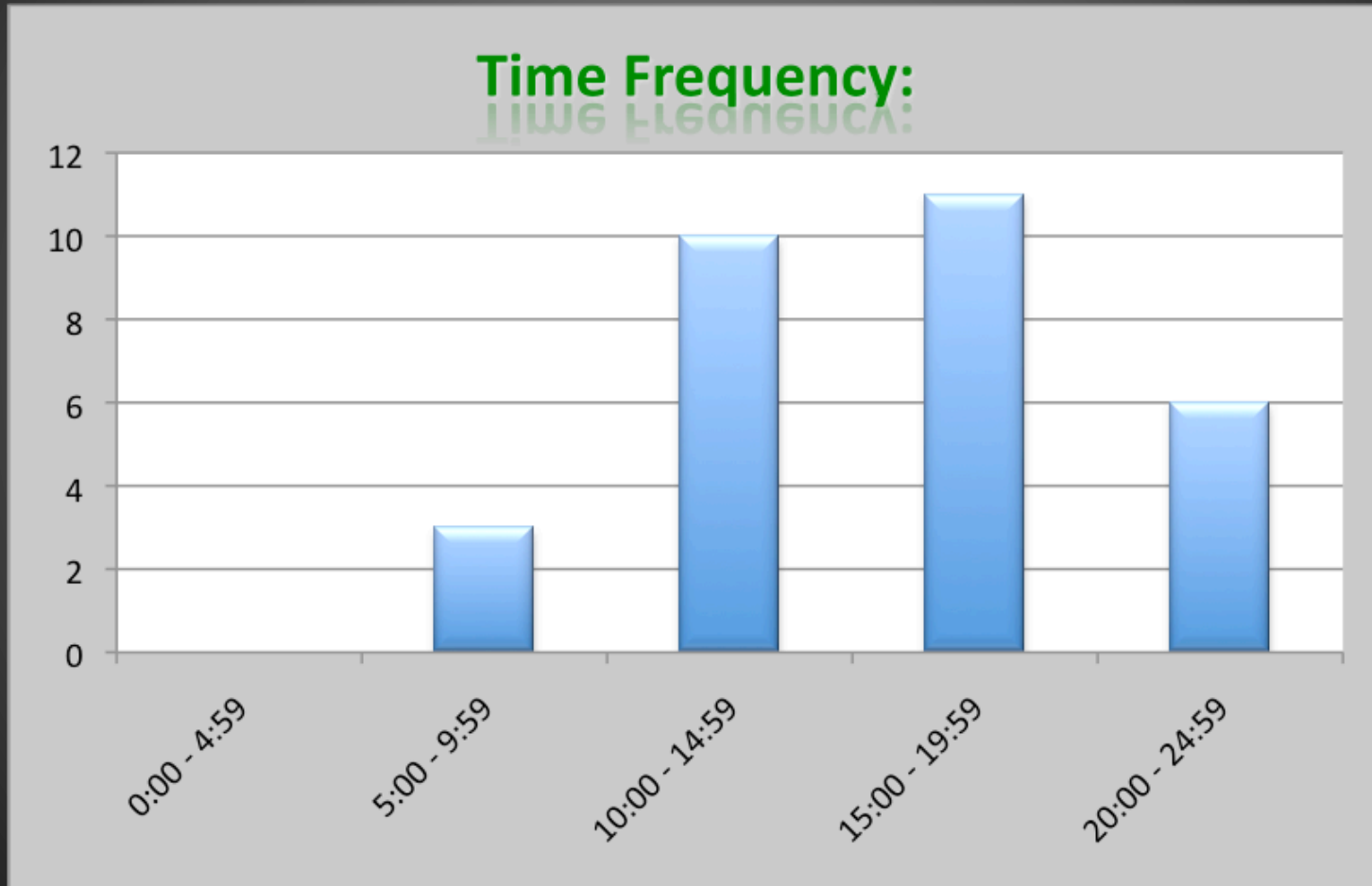
- I purchased a basic stopwatch
- Timed the boarding process from the first step onto the aircraft until the main cabin door has been closed
- Noted the time and passenger count



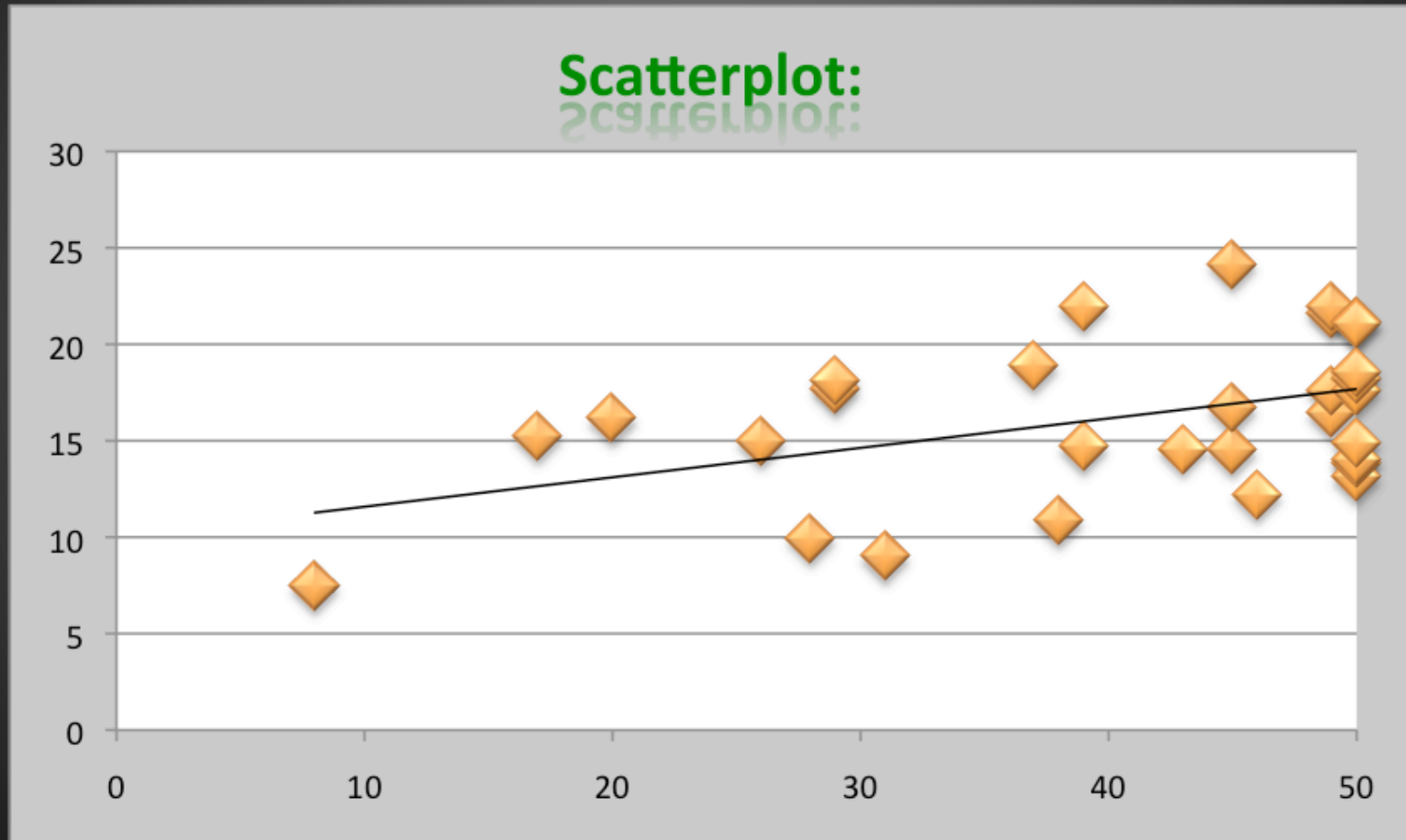
1st Quantitative



2nd Quantitative



Linear Correlation



Outside contributing factors:



- Mechanical issues
- Fueling the aircraft
- Reseating families/
groups
- Gate counter/computer
issues

Conclusion

Linear correlation: 0.441

There is a small correlation between the two variables, but there are too many other variables affect the length of the boarding process

