ACTIVITY 2

The article "Wednesday Morning peak worst for Canberra cyclists" from "The Canberra Times" dated Aug-15 2015 shows the statistical analysis of the Bike crashes dataset by the ACT government. It focuses on the following:

- Morning 8am to 9am records the highest bike accidents
- Wednesdays record the highest accidents among all days

These are concluded using the data set of past 3 years with **726** accident report.

In my opinion, more than the morning peak (8am to 9am), Wednesdays are dangerous. Comparing in numbers, accidents count of Wednesdays (150) is less than accident counts of morning peak (160). But the probability that an accident may occur on a Wednesday in future is

Total no of wed. (3 years) = 156

Total no of accidents on wed. = 150

Probability of an accident may occur on Wednesday = ~96%

Whereas, Probability of an accident may occur on morning peak (8am – 9am) = ~15%

The above is a hypothesis, assuming total accidents are split up as average between the duration to compare both the cases.

Incase if an accident happens on Wednesday and the **probability that it will** happen on morning peak (8am – 9am) = ~31%

So it's definitely wise to be more careful on Wednesday and also during morning peak hours.

Another interesting data is that among all accidents, intersection accidents (265) and side swipes (111) are the most frequent accidents occurred together which contribute around 51% of the accidents.

So, next time if you are travelling in Canberra pay attention to the intersection roads especially on Wednesdays and morning peak hours!

FUN FACT:

The total no. of accidents = **726**, out of which **331** crashes caused injuries, **2** crashes caused deaths, **393** normal crashes.