**Data and Probability**

**Logical Mathematical**

Sometimes data shows strong trends, and it is easy to make a prediction from it. Other times, the data is not as clear.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Speed | Number of car accidents per year |  | Age of driver | Number of car accidents per 5,000 people |  | Cost of Car | Number of car accidents per 100 cars |
| 50 km/h | 63 |  | 16-21 | 1,230 |  | $30,000 | 25 |
| 60 km/h | 81 |  | 21-30 | 1,050 |  | $50,000 | 17 |
| 70 km/h | 102 |  | 30-60 | 725 |  | $70,000 | 21 |
| 80 km/h | 137 |  | 60-70 | 840 |  | $90,000 | 43 |
| 90 km/h | 184 |  | 70-90 | 913 |  | $100,000+ | 28 |

Can you predict car accidents rate based on speed? Why might that be?

Can you predict car accidents rate based on drivers age? Why might that be?

Can you predict car accidents rate based on cost? Why might that be? (Consider speed they may be driven at, age of drivers, etc.)