

NCEA Level 2 Mathematics (Statistics)

Reading

<https://www.youtube.com/watch?v=Kgudt4PXs28>

Questions

- Suppose a fair 12-sided die is rolled. What is the probability that:
 - An even number is rolled.
 - A number divisible by three is rolled.
 - A number greater than (but not equal to) seven is rolled.
 - The number 12 is rolled.
 - The number 14 is rolled.
 - On two consecutive (independent) rolls, a six and then a five are rolled.
 - On two consecutive rolls, a five is not rolled either time.
- A factory makes three models of car, and each car can be one of three colours. The following table provides some information about the cars manufactured in a particular week.

	Silly Sedan	Horrible Hatchback	Vast Van	Total
Yellow	7			23
Black		16		34
Green	3	8	2	13
Total	20		14	

- Complete the table.
- Suppose a random car is chosen for inspection. What is the probability that the car is either a yellow car, or a sedan, or both?