

For each of the following situations, decide if you would model using a regression or classification model. Discuss your reasoning with your mentor next time you meet.

The amount a person will spend on a given site in the next 24 months.

Regression; most likely going to find that amount along a continuous line.

What color car someone is going to buy.

Classification; for each observation, I will be able to evaluate the likelihood of each given value. Each outcome level will be evaluated discretely and the relationship between them will not be predefined.

How many children a family will have.

Regression; found on a continuous line.

If someone will sign up for a service.

Classification. Discrete answer values is yes or no.

The number of times someone will get sick in a year.

Regression. Answer can be found on a line and there is no min or max.

The probability someone will get sick in the next month.

Regression. This is probability and can be rated as 0-100% on a line.

Which medicine will work best for a given patient.

Classification. We have a discrete set of medicines in the answer and each can be compared to the other.