**Drill: Regression or classification**

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.

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

**Regression**

1. What color car someone is going to buy.

**Classification**

1. How many children a family will have.

Both **regression** and **classification** are possible. If I use regression, I can get precise output, for example: 2.5, 3.1. In reality there is no fractional person but those numbers indicate like a person wants to get children between two and three or a little more than three.

1. If someone will sign up for a service.

**Classification**

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

**Regression** is easier it is hard to determine in how many discreet ways a person can get sick.

1. The probability someone will get sick in the next month

**Regression**

1. Which medicine will work best for a given patient.

**Classification** works given there is a set of medicines to classify