Week 3: Quiz 3
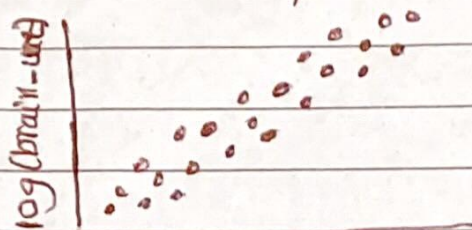
1. How many diamonds are 0.99 carat in the diamonds dataset?

```
ll <- subset(diamonds, carat==0.99)
dim(ll)
```

2. The following graph shows the relationship between the average body weight & brain weight for som animals.
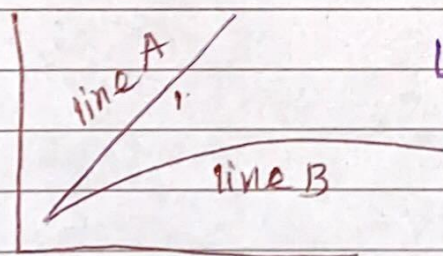what is the relationship between body weight & brain weight?

Log of body weight

Approximately power.

3. A scatterplot shows the relationship between two quantitative variables measured for the same individuals. The values of one variable appear on the horizontal axis, and the value of the other variable appear on the vertical axis.
Each individual in the data appears as a point on the graph.
True.

4. Figure below shows a lin-log plot of y given x. Suppose that x and y are related by $y = f(x)$.
what function $y = f(x)$ is represented approximately by line A and B, respectively?

Line A: linear; Line B: exponential

5. How many diamonds are 1 carat in the diamonds dataset?

```
ll <- subset(diamonds, carat==1)
dim(ll)
1558   10
```

∴ Answer 1558