purrr practical

Jumping Rivers

First we must load **purrr**

```
library("purrr")
```

Question 1

```
l = list(x = rnorm(10), y = rnorm(15), z = rnorm(20))
```

a) `l` is a list with 3 elements; `x`, `y` and `z`. Each are vector of different lengths. Work out the minimum, mean and maximum value for each `x`, `y` and `z` i.e. each element of `l`. Return the output as a vector of doubles.
Hint: use `map_dbl()`

b) Do the same but this time using the formula notation

Question 2

Now we're going to look at a list containing happiness rankings for countries around the globe.

```
data(happiness, package = "jrTidyverse2")
```

a) How long is the list? Is this a recursive list? How many countries does the list contain information on? For each country how many pieces of information is there?
Hint: use `str()`

b) Grab the name of each country contained in the list. To make it a bit easier to read return the output as a character vector.

c) Try `names(happiness)`, what happens? Use the answer to `b)` to rename each element of the list after it's representative country.

d) What has the UKs average happiness rank been over the last 3 years?

e) Over the last 3 years, what is the average happiness score for every country? Store this in a vector of doubles.

f) Which region of the world has the high average happiness score?
Hint: store the region for each country in a vector, combine it into a data frame with the average happiness then use **dplyr**.

Question 3