Proportion sorting 2 - answers

In proportion:

Situation C

The amounts of blue and yellow paint to make a particular shade of green.

Situation D

The amounts of sand and cement in a concrete mix.

Situation F

The number of US dollars compared to UK pounds sterling equivalent.

(But note that there may be fees for the exchange.)

Not in proportion:

Situation A

The cost of a monthly mobile phone contract and the number of minutes called.

Monthly contracts usually have a fixed cost unless you call more than the amount. Even pay-as-you-go has different rates for different calls.

Situation B

The amount of income tax paid and salaries.

Although there is proportion in taxes, different rates are paid for different amounts of salary. We all get an amount of salary on which no tax is paid. After that there are different rates - 10%, 20%, 40% - for the various amounts earned.

Situation E

The population of a country and the land area.

Although there is a general link between land area and population, it is not in proportion. For example, the amount of land per person in the Netherlands is about half of that of the UK.