

15 There are 20 buttons in a box.

There are

6 blue buttons

9 green buttons

5 red buttons.

Jai puts 12 more buttons in the box.

These buttons are either blue buttons or red buttons.

Jai is going to pick at random one button from the box.

The probability that this button will be blue is $\frac{1}{4}$

How many more red buttons did Jai put in the box?

You must show all your working.