

(The Haber process (conditions, yield, equilibrium))

Q1.a)(2018)

hydrogen

Q1.b)(2018)

450 °C

200 atm / atmospheres

Q1.c)(2018)

ammonia has a higher boiling point

Q2.(2019)

(the world production of ammonia) increased

(the increase was) not steady / linear

Q3.(2020)

iron

Q4.a)(2021)

(percentage yield =)

$$\frac{380}{400} \times 100$$

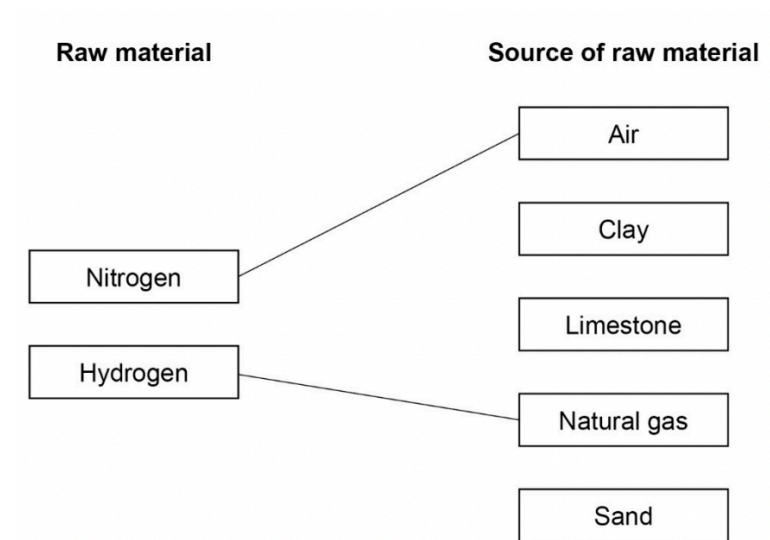
= 95 (%)

Q4.b)(2021)

some ethanol changes back into ethene and steam

some ethanol escapes from the apparatus

Q5.(2022)



Q6.(2022)

gas

gas

Q7.(2022)

there is one product

Q8.(2022)

liquefied

recycled

Q9.a)(2022)

all six points plotted correctly

line of best fit

Q9.b)(2022)

(percentage yield) increases

Q10.a)(2024)

to recycle (remaining) nitrogen
and hydrogen

Using Resources

<http://www.pcfgstudy.com>

Q10.b)(2024)

iron