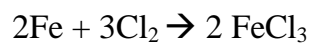
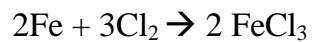


Ferum reacts with chlorine gas to produce ferum(III)chloride. Reaction for this process is next :



It is possible to find mass of FeCl_3 by using this equation.

$$3.44 \quad \quad \quad m$$

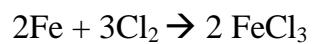


Mw of Fe Mw of FeCl_3

$$\text{Mw of Fe} = 56$$

$$\text{Mw of } \text{FeCl}_3 = 162, \text{ so}$$

$$3.44 \quad \quad \quad m$$



$$56 \quad \quad \quad 162$$

$$m = 3.44 * 162 / 56 = \mathbf{9.95g}$$