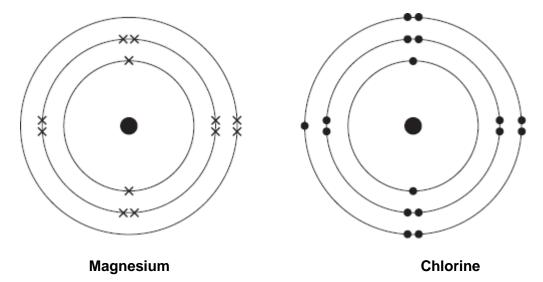


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Q1.

(a) The diagram shows an atom of magnesium and an atom of chlorine.



Describe, in terms of electrons, how magnesium atoms and chlorine atoms change into ions to produce magnesium chloride (MgCl₂).

(b) Calculate the relative formula mass (M_r) of magnesium chloride $(MgCl_2)$.

Relative atomic masses (A_r): magnesium = 24; chlorine = 35.5

Relative formula mass $(M_r) =$

(2)

(4)

(Total 6 marks)

Mark schemes

Q1. (a)	magnesium <u>loses electrons</u> there are four ideas here that need to be linked in two pairs.	1
	two electrons	1
	chlorine gains electrons magnesium loses electrons and chlorine gains electrons scores 2 marks.	1
	two atoms of chlorine magnesium loses two electrons and two chlorines each gain one electron will score full marks.	1
(b)	95 correct answer with or without working gains 2 marks if answer incorrect, allow 24 + 35.5 + 35.5 for 1 mark	2

[6]