

Name keyPeriod A11**Quiz 10** – Balancing Representative Element Chemical Reactions

20 Points

Complete the following chart based on the two reactions listed above.

⑦④

$$\underline{2} \text{ Ni} + \underline{3} \text{ I}_2 \rightarrow \underline{2} \text{ NiI}_3$$

Reactants		Products	
Ni	1 2	Ni	1 2
I	2 6	I	3 6

②④

⑦④

$$\underline{2} \text{ CaBr}_2 + \text{TiS}_2 \rightarrow \underline{2} \text{ CaS} + \text{TiBr}_4$$

Reactants		Products	
Ca	1 2	Ca	1 2
Br	2 4	Br	4
Ti	1	Ti	1
S	2	S	1 2

⑧④

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Complete the following chart based on the two reactions listed above.

⑦④

$$\underline{3} \text{ Fe} + \text{N}_2 \rightarrow \text{Fe}_3\text{N}_2$$

Reactants		Products	
Fe	1 3	Fe	3
N	2	N	2

②④

⑦④

$$\underline{2} \text{ VBr}_3 + \underline{3} \text{ MnO} \rightarrow \text{V}_2\text{O}_3 + \underline{3} \text{ MnBr}_2$$

Reactants		Products	
V	1 2	V	2
Br	3 6	Br	2 6
Mn	1 3	Mn	1 3
O	1 3	O	3

⑧④