

p. 216 #1, 2ab, 3ab, 4, 5ab, 6ace, 7ace, 8cd, 9ac, 11-17(ace), 20abcd.

	P	E	N
Rel. Mass	1836	1	1837
Charge	+	-	0
Location	nucleus	sur. nucleus	nucleus

Q. a) Alkali, Alkaline earth, Halogens, Noble gases
b) (1), (2), (17), (18)

3. a) lose electrons = positively charged
b) gain electrons = negatively charged

4. arrangement of electrons in outermost (valence) shell $\rightarrow$ most stable

5. a) Iron can form ion in more than one way
b) Iron, (there are many others)

b.a) Mg c) Au e) He

7. a) $Mg \Rightarrow \begin{pmatrix} 12P \\ 12N \end{pmatrix} \Rightarrow 8$

c) $\text{Ca}^{2+} \Rightarrow \left[\begin{array}{c} 20\text{P} \\ 20\text{N} \end{array} \right]^{2+}$

