

Exercise 2.7

Five of the boxes in the following periodic table are colored. Predict the charge on the ion associated with each of these elements. [Section 2.7]

Solution

The ion of the yellow element in the first column (group 1A) has a charge of $1+$.

The ion of the blue element in the second column (group 2A) has a charge of $2+$.

The ion of the black element in the third column (group 3A) has a charge of $3+$.

The ion of the orange element in the sixth column (group 6A) has a charge of $2-$.

The ion of the green element in the seventh column (group 7A) has a charge of $1-$.