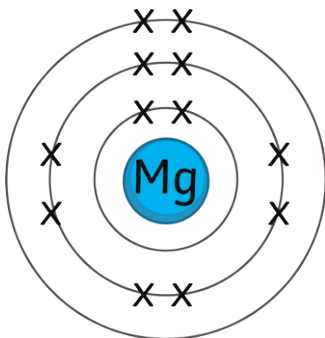


# Exam-Style Question

1. Magnesium is in group 2 and period 3 of the periodic table.  
Below is a diagram of a magnesium atom.



(i) What is the mass number of a magnesium atom?

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(ii) What is the charge of a proton?

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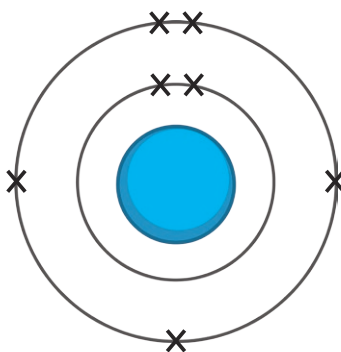
(iii) Protons are found in the nucleus. Which other subatomic particle is found in the nucleus?

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(iv) Which particle number is always different for atoms of different elements?

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2. The diagram below shows the electron arrangement for an element.



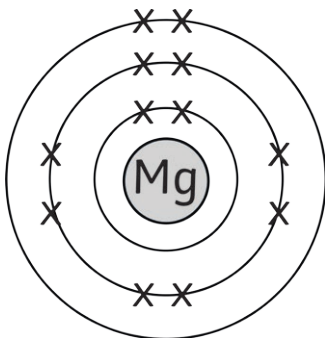
Give the chemical symbol of the element. \_\_\_\_\_



# Exam-Style Question Answers

1. Magnesium is in group 2 and period 3 of the periodic table.

Below is a diagram of a magnesium atom.



- (i) What is the mass number of a magnesium atom?

**24**

- (ii) What is the charge of a proton?

**positive**

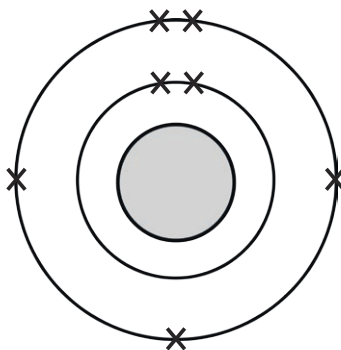
- (iii) Protons are found in the nucleus. Which other subatomic particle is found in the nucleus?

**neutrons**

- (iv) Which particle number is always different for atoms of different elements?

**number of protons**

2. The diagram below shows the electron arrangement for an element.



Give the chemical symbol of the element. **N**

