

Solutions

Each answer shows the steps, then the **result**.

2.1

- they exist as **single atoms**, not joined into molecules

2.2

- **Group VIII (0)**, on the far right

3.1 C

- they have a **full outer shell of electrons**
- A is Group I; B is Group VII; D is false

3.2

(a)

- argon has a **full outer shell**
- it does not need to gain, lose or share electrons, so it is **unreactive**

(b)

- it exists as **single atoms**