

Solutions

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

2.1

- about **78% nitrogen**
- about **21% oxygen**

2.2

- acid rain from sulfur fuels: **sulfur dioxide**

3.1 B

- carbon monoxide comes from **incomplete combustion**
- A is complete combustion; C and D produce CO₂

3.2

(a)

- greenhouse gases let **sunlight through** to warm the Earth
- they **absorb** the heat the Earth gives off
- and send some back down, so **less heat escapes**

(b)

- any **one** of: plant trees / burn fewer fossil fuels / use renewable energy

3.3

- it **reduces** NO_x and CO released, improving air quality