

1 Which compound is **not** a fertiliser?

- A ammonium sulfate,  $(\text{NH}_4)_2\text{SO}_4$
- B calcium hydroxide,  $\text{Ca}(\text{OH})_2$
- C potassium chloride,  $\text{KCl}$
- D urea,  $\text{CO}(\text{NH}_2)_2$

2 Acid rain is formed when sulfur dioxide and oxides of nitrogen dissolve in rain water.

Which problem is **not** caused by acid rain?

- A breathing difficulties
- B dying trees
- C erosion of statues
- D lowered pH of lakes

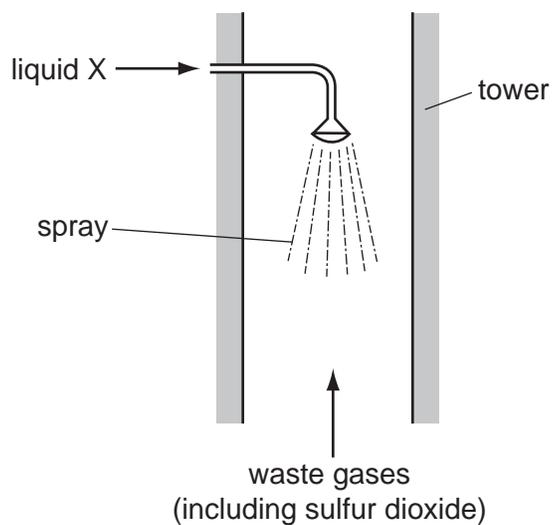
3 Statement 1: The burning of fossil fuels containing sulfur is a cause of 'acid rain'.

Statement 2: Acid rain contains sulfur dioxide which is formed when sulfur compounds burn in the air.

Which of the following is true?

- A Both statements are correct and statement 2 explains statement 1.
- B Both statements are correct, but statement 2 does not explain statement 1.
- C Statement 1 is correct but statement 2 is incorrect.
- D Statement 2 is correct but statement 1 is incorrect.

- 4 When coal and oil burn in power stations, the acidic gas sulfur dioxide is formed. Sulfur dioxide is removed by absorbing it in a liquid sprayed down a tower.



What is liquid X?

- A** calcium hydroxide solution
- B** sodium chloride solution
- C** dilute hydrochloric acid
- D** water