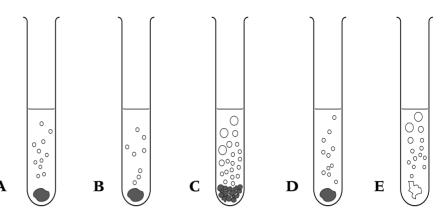
## 7Fb/5 Fizzy metals 2

Sunita and Danny did an experiment using metals and acids. They wanted to see which metal reacted the fastest. This diagram shows their results.





- 1 How can you tell that the reactions are producing a gas?
- **2** a What is the gas that the reactions are producing?
  - **b** Describe how they could test for this gas. Write down the apparatus they would need, and what they would see happening.
- **3** Which metal reacted the fastest? Explain your answer.
- **4** Danny made a mistake in the experiment. Two of the metals were the same.
  - **a** Which two metals were the same as each other?
  - **b** How did you work out your answer?
- **5** Which things should Sunita and Danny keep the same each time to make sure their test is fair? You should be able to write down at least three things.
- **6 a** Which chemicals are the reactants in the reaction?
  - **b** Which chemical is one of the products?
- **7** Use these clues to work out the names of the metals that Danny and Sunita tested, and which metal they did not test at all.
  - Zinc reacts faster than iron.
  - Copper does not react with acids at all.
  - Iron does not react as quickly as aluminium and magnesium.
  - Aluminium reacts faster than zinc, but not as fast as magnesium.

